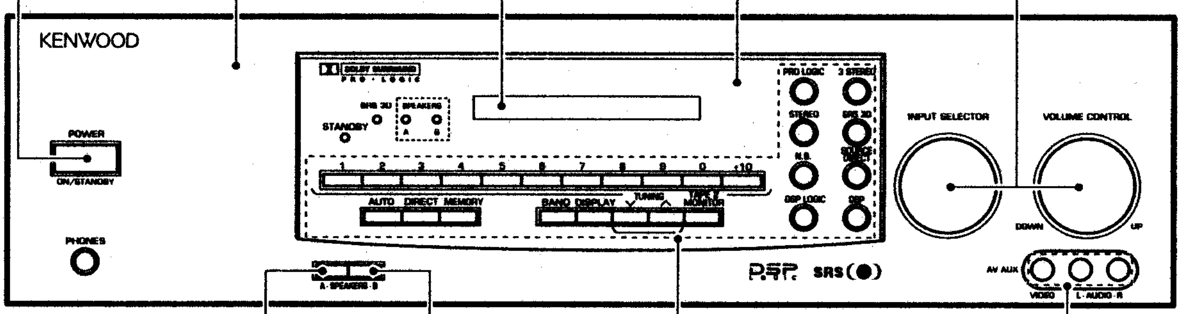
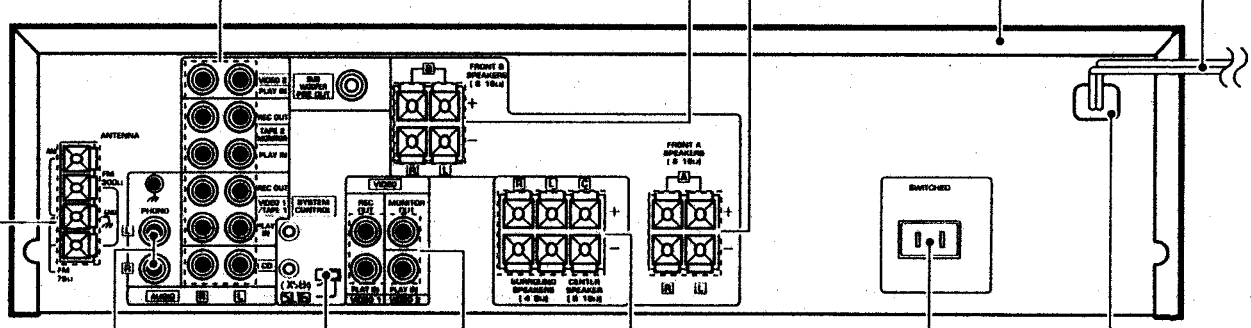
AUDIO-VIDEO SURROUND RECEIVER

106VR/107VR/KR-797/897/V6090/V7090

SERVICE MANUAL

KENWOOD





*** Refer to parts list on page 43.**

Note:

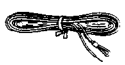
Please check your model name and your destination in parts list before parts order.

CONTENTS / ACCESSORIES

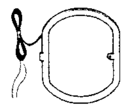
Contents

Accessories

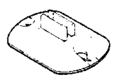
FM indoor antenna (1) *
(T90-0801-05) or
(T90-0810-05)



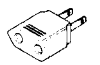
AM loop antenna (1)
(T90-0820-05)



Loop antenna stand (1)

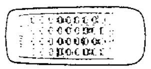


* AC plug adapter (1)
(E03-0115-05)



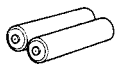
* Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use in necessary.)

Remote control unit (1)
(A70-1107-05)



Battery cover (A09-0356-08)

Batteries (R6/AA) (2)



Shorting pins (2)
(J12-0091-15) : KR-797 only



* Refer to parts list

Instruction manual

KR-V6090/106VR

ENGLISH	B60-2983-00	KPY
FRENCH	B60-2984-00	P
FRE/DUT	B60-2985-00	E
ITA/SPA	B60-2986-00	E
GERMAN	B60-2987-00	E
ENGLISH	B60-2988-00	T
SPANISH	B60-2989-00	M
CHINESE	B60-2990-00	V
TAIWAN	B60-2991-00	M
RUSS/POL	B60-2992-00	Q
ENGLISH	B60-3072-00	MX

KR-V7090/107VR

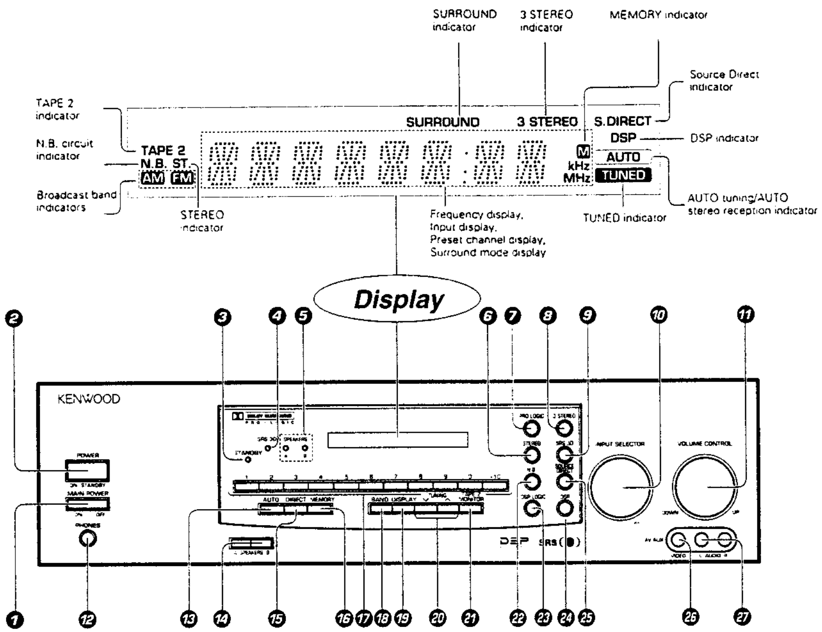
FRENCH	B60-2979-00	P
SPANISH	B60-2980-00	M
CHINESE	B60-2981-00	V
TAIWAN	B60-2982-00	M
ENGLISH	B60-3071-00	MX

KR-797/897

ENGLISH	B60-3069-00	PY
FRENCH	B60-3070-00	P

CONTROLS

Control and indicators



❶ MAIN POWER switch
Press to switch the main power ON/OFF.
❷ REMOTE POWER key
Press to switch over the STANDBY/ON modes when the MAIN POWER is ON.
❸ STANDBY indicator
❹ SRS 3D indicator
Lights when the SRS 3D system is ON.
❺ SPEAKERS indicator
Lights when the speakers are ON.
❻ STEREO key
Press to turn the surround mode OFF.
❼ DOLBY PRO LOGIC key
❽ DOLBY 3 STEREO key
❾ SRS 3D key
❿ INPUT SELECTOR knob
Rotate to select the input source.
⓫ VOLUME CONTROL knob
⓬ PHONES jack
Plug headphones into this jack.

⓭ AUTO key
Press to select the tuning mode from the auto tuning and manual tuning modes.
Press and hold the AUTO key for more than 2 seconds to switch the VIDEO1 display to another input display.
⓮ SPEAKERS A/B keys
Press to select the A and/or B speakers system.
⓯ DIRECT key
Press when tuning a broadcast station by entering the digits of its frequencies.
⓰ MEMORY key
Press when registering a broadcast station in the preset memory.
⓱ Numeric keys (1 to 0, +10)
⓲ BAND key
Press to switch the broadcasting band.
⓳ DISPLAY key
Press to switch the displayed information between the surround mode display and input selector display.
Press and hold the **DISPLAY** key for more than 2 seconds to switch the display brightness.

⓴ TUNING keys (∨, ∧)
Press to select a radio station.
㉑ TAPE 2 MONITOR key
Press to monitor the sound being recorded, etc.
㉒ N.B. key
Press to compensate for the insufficiency in the base sound.
㉓ DSP LOGIC key
㉔ DSP key
㉕ SOURCE DIRECT key
Press to listen to the source sound with a higher sound quality.
㉖ AV AUX (VIDEO) input terminals
Video input terminal.
㉗ AV AUX (AUDIO) input terminals
Audio input terminal.

STANDBY position of the REMOTE POWER key

When the STANDBY indicator of this unit is lit after its power cord has been plugged into wall outlet and the **MAIN POWER** switch has been pressed to ON, a small amount of current is supplied to back up the internal memory of the unit. This status is referred to as the standby mode of the unit. While the STANDBY indicator is lit, the POWER can be switched between ON and STANDBY from the remote control unit.
When the unit is not to be used for a long period of time, press the **MAIN POWER** key to OFF.

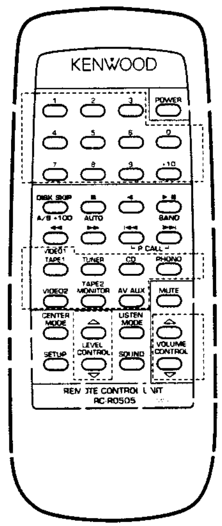
CONTROLS

Operation of remote control unit

Names of keys and their functions

The remote control unit provided with the receiver can also control KENWOOD cassette decks, CD player and MD recorder connected to the recieiver through system control cords. For details of the controllable functions, refer to the instruction manuals of these components.

Model: RC-R0505
Infrared ray system



Numeric keys
Used as the numeric keys of the input source component being selected.

INPUT keys
Press to select the input.

CENTER MODE key
Press to select the center mode in the DOLBY PRO LOGIC surround mode.

SETUP key
Press to set up the balance or surround play.

LEVEL CONTROL keys
Press to adjust the tone or during setup of the surround mode.

POWER key
Press to switch ON/OFF the power of this unit as well as the KENWOOD components connected to it through system control cords.

Refer to the remote control key correspondence table on the next page.

MUTE key
Press to mute sound temporarily.

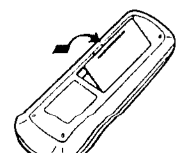
VOLUME CONTROL keys
Press to adjust the volume.

LISTEN MODE key
Press to select the type of the surround mode.

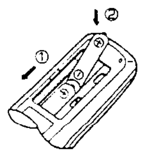
SOUND key
Press to adjust the tone.

Loading batteries

❶ Remove the cover.

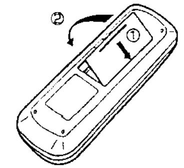


❷ Insert batteries.



• Insert two AA-size (R6 / SUM-3) batteries as indicated by the polarity marking.

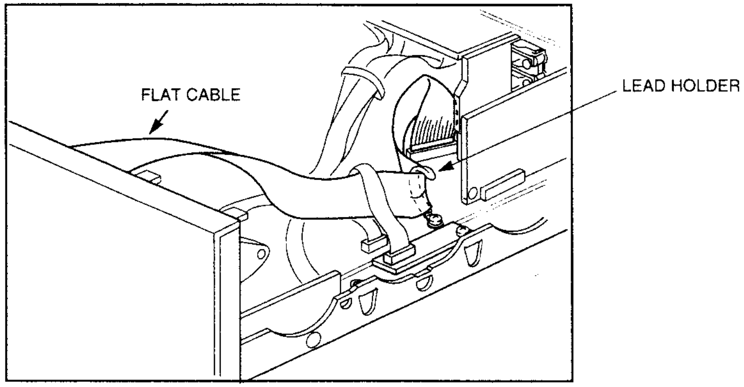
❸ Close the cover.



DISASSEMBLY FOR REPAIR

※ CAUTION FOR REPAIR

Keep a flat cable away from heatsink for safety, and tie it with the lead holder as illustration if disassembled for repair.



CIRCUIT DESCRIPTION

1. INITIAL STATE

(1) AMP-related block

- POWER ON STAND BY — POWER OFF
- AUDIO SELECTOR — TUNER
- VIDEO SELECTOR — VIDEO 1
- VIDEO OUT SOURCE — VIDEO 1
- SPEAKER A — ON
- SPEAKER B — OFF
- TAPE 2 MONITOR — OFF
- SOURCE DIRECT — OFF
- SOUND ADJUST MODE — BASS
- BASS — 0 STEP
- MID — 0 STEP
- TREBLE — 0 STEP
- SRS 3D — OFF
- SRS CENTER
- VOLUME — 7 step
- N. B. CIRCUIT — OFF

(2) SURROUND-related block

- SURROUND MODE — STEREO (SURROUND OFF)
- DSP MODE — ARENA
- DSP LOGIC MODE — LARGE
- CENTER MODE — NORMAL
- SET UP MODE — OFF
- DISTANCE
  - DSP/DSP LOGIC — 30ms
  - DOLBY PRO LOGIC — 20ms
- BALANCE — CENTER
- CENTER LEVEL — 0 STEP
- REAR LEVEL — 0 STEP
- SUB WOOFER — 0 STEP(SUB WOOFER OFF)

(3) Tune-related block

- BAND — FM
- FREQUENCY — 87.5MHZ(K/E/Q TYPE)
- P.CH DISPLAY — --CH
- RDS MEMORY — NO DATA
- POLAR/PILOT(Q TYPE) — POLAR

(4) TEST PRESET FREQUENCY

Channel	BAND	K1 TYPE	BAND	K2 TYPE	BAND	E1/E3 TYPE	BAND	Q TYPE
01ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
02ch	FM	97.50MHz	FM	97.50MHz	FM	97.50MHz	FM	98.00MHz
03ch	FM	108.00MHz	FM	108.00MHz	FM	108.00MHZ	FM	108.00MHZ
04ch	AM	630kHz	AM	630kHz	AM	630kHz	AM	630kHz
05ch	AM	1000kHz	AM	1000kHz	AM	999kHz	AM	999kHz
06ch	AM	1440kHz	AM	1440kHz	AM	1440kHz	AM	1440kHz
07ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FML	74.00MHz
08ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FML	65.00MHz
09ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FML	69.00MHz
10ch	FM	89.10MHz	FM	89.10MHz	FM	89.10MHz	FM	89.10MHz
11ch	FM	90.00MHz	FM	90.00MHz	FM	90.00MHz	FM	90.00MHz
12ch	FM	98.00MHz	FM	98.00MHz	FM	98.00MHz	FM	97.50MHz
13ch	FM	98.50MHz	FM	98.50MHz	FM	98.50MHz	FM	98.50MHz
14ch	FM	106.00MHz	FM	106.00MHz	FM	106.00MHz	FM	106.00MHz
15ch	AM	530kHz	AM	530kHz	AM	531kHz	AM	531kHz
16ch	AM	990kHz	AM	990kHz	AM	990kHz	AM	990kHz
17ch	AM	1700kHz	AM	1610kHz	AM	1602kHz	AM	1602kHz
18ch	FM	87.50 MHz	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
19ch	FM	87.50MHz	FM	87.50MHZ	FM	87.50MHz	FM	87.50MHz
20ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz

The initial setting is performed in a following event :

1. When backup memory data is destroyed when reset is applied to the microprocessor.
2. When the power cord is plugged in to the AC wall outlet while pressing the POWER key.

2. BACK UP

For the operation outline and backup state setting, refer to KR-V7080/V8080 service manual (B51-5162-00).

(1) Contents of back up data to be held.

--- AMP ---

- POWER STANDBY ON/OFF
- SELECTOR SOURCE
- VIDEO 1 SELECTOR SOURCE
- VIDEO OUT SOURCE
- TAPE2 MONITOR ON/OFF
- SPEAKER A RELAY ON/OFF
- SPEAKER B RELAY ON/OFF
- VOLUME LEVEL VALUE
- SOUND ADJUST MODE
- BASS LEVEL
- MID LEVEL
- TREBLE LEVEL
- SRS 3D ON/OFF
- SRS CENTER LEVER
- SRS SPACE LEVEL
- SOURCE DIRECT ON/OFF
- N.B. CIRCUIT ON/OFF

--- SURROUND ---

- SURROUND MODE
- DSP MODE
- DSP LOGIC MODE
- CENTER MODE
- DISTANCE
- BALANCE LEVEL
- CENTER LEVEL
- REAR LEVEL
- SUB WOOFER LEVEL

--- TUNER ---

- BAND
- RECEIVING STATION FREQUENCY data
- PRESET MEMORY data
- RDS MEMORY
- POLAR/PILOT

3. DESTINATION LIST OF TUNER

Table 3-1 Destination List of Tuner

Destination	BAND	Receive frequency range	channel space	1F	PLL reference frequency	Destination DSW(X09-) DSW2 D114	DSW1 D113	DSW0 D112
K1 (1700)	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz			
K2 (1610)	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	1
	AM	530kHz~1610kHz	10kHz	+450kHz	10kHz			
E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	1	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz			
E3 (RDS)	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	1	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz			
Q(RDS)	FML	65.0MHz ~74.0MHz	10kHz	+10.7MHz	5kHz	1	1	1
	FMH	87.5MHz~108MHz	50kHz	+10.7MHz	5kHz			
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz			
M	K2/E1 changes by only setting "DSW1". (DSW 1=0 : K2 Type. 1 : E1 Type)					0	X	1

DIODE SW(DSWX) : 0 = Without DIODE (When static, input LOW)
1 = With DIODE(When static, input HIGH)
X = TRANSISTOR SW (0 = OFF 1=0N)

4. DESTINATION AND MODEL LIST

MODEL \ FUNCTION	DSP/DSP LOGIC	FRONT AUX	SPEAKER B	MODEL SELECTION SW DSW3 (DI22)	DSW4 (DI23)
KR-V7090	0	0	0	0	1
KR-V6090	X	X	X	1	0
KR-V5090	X	X	X	0	0

106VR/107VR/KR-797/897/V6090/V7090
CIRCUIT DESCRIPTION

5. KEY MATRIX

[( ) : μ-Com IC port] X09 IC21

KSCN \ KRTN	KR0(14)	KR1(15)	KR2(16)	KR3(17)	KR4(18)
KS1 (54)	SP.A	STEREO/MONO	*1 SP.B	—	—
KS2 (53)	—	3 (10 KEY)	POWER ON/ST	1 (10KEY)	2 (10 KEY)
KS3(52)	+10	TAPE2	T.DOWN	*RTY	*TA/NEWS INFO.
KS4(51)	DSP/P.UP	S.DIRECT	N.B	DSP L./P.KOWN	9 (10 KEY)
KS5(50)	0 (10 KEY)	T.UP	DISPLAY	BAND	7 (10 KEY)
KS6(49)	6 (10 KEY)	4 (10 KEY)	5 (10 KEY)	DIRECT	MEMORY
KS7(48)	3 ST	SRS 3D	STEREO	PRO LOGIC	8 (10 KEY)
KS8(47)	DSW0 (D123)	DSW1 (D122)	DSW2 (D114)	DSW3 (D113)	DSW4 (D112)

* 1 KR-V7090 ONLY * 2, 3 E3/Q TYPE (RDS) ONLY

6. TEST MODE

For the TEST MODE of main unit and SERIAL TEST MODE, refer to service manual (B51-5162-00) of KR-V7080/V8080.
The only change point is as follows.

(1) One touch setting's for Audio Level and Surround Level items.

The variation of Audio Level and Surround Level items can be set with respective keys and. if the selector is on something other than TUNER, direct settings can be made with the number keys.

KEY \ MODEL	KR-V7080/V8080 (FUNCTION)	105VR/106VR/107VR KR-797/897/XX90SERIES (FUNCTION)
KEY [4]	BALANCE	BALANCE ↔ SUB WOOFER LEVEL
KEY [5]	BASS	BASS → MIDDLE → TREBLE (←)
KEY [6]	TREBLE	REAR LEVEL
KEY [7]	SUB WOOFER	CENTER LEVEL
KEY [8]	REAR LEVEL	DELAY TIME
KEY [9]	CENTER LEVEL	SRS CENTER ↔ SPACE
KEY [0]	DELAY TIME	MULTI CONTROL UP
KEY [+10]	EFFECT LEVEL	MULTI CONTROL DOWN

CIRCUIT DESCRIPTION

(2) SERIAL TEST CODE LIST (C2XXH)

FUNC \ TYPE	AMP 0	1	2	3	4	5	6	7	TUNER 8	9	A	B	C	D	E	F
0	POWER OFF	CD DIRECT OFF	SP B OFF	DUAL SOUND LEVEL1	NB OFF	TV/SAT (TV/CABLE) (INPUT)	INPUT LEVEL MIN	CENTER SP ON	POWER OFF	0	MEMORY (ENTER)					
1	POWER ON	CD DIRECT ON	SP B ON	DUAL SOUND LEVEL2	OMNI SP ON	FRONT SP ON	INPUT LEVEL MID	CENTER SP OFF	POWER ON	1	MAIN					
2	PHONO	CD REC OFF	HIT MASTER OFF	DUAL SOUND LEVEL3	MUTING (-30dB) OFF	FRONT SP OFF	INPUT LEVEL MAX	MD MONITOR ON	MUTE OFF	2	SUB					
3	CD	CD REC ON	HIT MASTER ON	DUAL SOUND INPUT CD	MUTING (-30dB) ON	C/S SP ON	DIMMER OFF	MD MONITOR OFF	MUTE ON	3	BOTH					
4	TUNER	SOURCE DIRECT OFF	MOTOR VOL UP	DUAL SOUND INPUT TUNER	NB LEVEL1	C/S SP OFF	DIMMER 1	REC MODE ON	AUTO STEREO	4	AF					
5	TAPE (TAPE A)	SOURCE DIRECT ON	MOTOR VOL DOWN	DUAL SOUND INPUT TAPE	NB LEVEL2	C/S MUTE ON	DIMMER 2	REC MODE OFF	MONO	5	PTY					
6	TAPE2 (TAPE B)	LINE STRAIGHT OFF	MOTOR VOL STOP	DUAL SOUND INPUT MD/DAT	NB LEVEL3	VIDE05	IR REPEATER TEST	REC OUT OFF POSITION	TUNED OFF	6	DISPLAY					
7	AUX	SINE STRAIGHT ON	DBS/TV	DUAL SOUND INPUT VIDEO	BALANCE Lch MAX	MENU	MD (INPUT)		TUNED ON	7	ANTENNA A					
8	DAT	LOUDNESS OFF	TAPE2 MONITOR OFF	DUAL SOUND INPUT AV/AUX	BALANCE Lch/Rch CENTER	TONE CONTROL OFF	TV (INPUT)		ACTIVE RECEPTION OFF	8	ANTENNA B					
9	VIDEO1 (VIDEO)	LOUDNESS ON	TAPE2 MONITOR ON	BGM OFF	BALANCE Rch MAX	TONE CONTROL ON	CABLE/Sat (INPUT)	FL ALL OFF OFF	ACTIVE RECEPTION ON	9	PS DISPLAY					FL ALL OFF OFF
A	VIDEO2	SUB SONIC OFF	VIDEO MUTE ON	BGM ON	L.A.C. MAIN MAX	BASS MIN	SUB MUTE ON	FL ALL OFF ON	RF DIRECT (ATT ON)	+10	SIGNAL LEVEL DISP OFF					FL ALL OFF ON
B	VIDEO3	SUB SONIC ON	LAC VOL UP	FAN OFF	L.A.C MAIN/SUB CENTER	BASS MID	REC MUTE ON	ALL ON OFF	RS DISTANCE (ATT OFF)	BAND FM	SIGNAL LEVEL DISP ON					ALL ON OFF
C	VIDEO4 (VDP)	SUPER WOOFER OFF	LAC VOL DOWN	FAN ON	L.A.C. SUB MIN	BASS MIX	BASS DOWN	ALL ON ON	IF WIDE	BAND AM/MW	TUNER DIRECT					ALL ON ON
D	MUTE ON (MAIN)	SUPER WOOFER ON	LAC VOL STOP	FAN SPEED LOW	FAN STOP LOW	TREBLE MIN	BASS UP	AMP INITIAL	IF NORMAL	BAND TV/LW						TUNER INITIAL
E	SEL MUTE ON	SPEAKER A OFF (FRONT)	DUAL SOUND OFF	FAN SPEED HIGH	FAN STOP HIGH	TREBLE MID	TREBLE DOWN	AMP SERIAL TEST OFF	IF NARROW	DOWN						TUNER SERIAL TEST OFF
F	MUTE ALL OFF	SPEAKER A ON (FRONT)	DUAL SOUND ON	NB ON	LD (INPUT)	TREBLE MAX	TREBLE UP	AMP SERIAL TEST ON	DIRECT	UP						TUNER SERIAL TEST ON

■ : Sending code □ : Receiving code

(C3XXH)

FUNC \ TYPE	SURROUND 0	1	2	3	4	5	6	7	GE 8	9	A	B	C	D	E	F
0	POWER OFF	REAR MUTE ON	ASFC MAX	ACOUSTIC BGM	PRESENCE GAME	ECHO 2	SUB WOOFER LEVEL MIN	MIDNIGHT OFF	POWER OFF	EQ JAZZ						
1	POWER ON	MUTE ALL OFF	SEAT POS MIN	CINEMA SCREEN OFF	PRESENCE KARAOKE	PRESENCE HIT MASTER	SUB WOOFER LEVEL MID	MIDNIGHT 1	POWER ON	EQ FUSION						
2	STEREO BYPASS/OFF	CENTER LEVEL MIN	SEAT POS MID	CINEMA SCREEN 1	F 2ch	THX	SUB WOOFER LEVEL MAX	MIDNIGHT 2	MUTE OFF	EQ MOVIE						
3	DOLBY SURROUND NORMAL/WID	CENTER LEVEL MID	SEAT POS MAX	CINEMA SCREEN 2	DOLBY SURROUND (PHANTOM)	MONO	3D STEREO ON	MIDNIGHT 3	MUTE ON							
4	DOLBY 3 STEREO	CENTER LEVEL MAX	WALL MIN	CINEMA SCREEN 3	DEPTH OFF	INPUT LEVEL MIN	3D STEREO OFF	AC-3 ON	EQ OFF							
5	DSP	REAR R LEVEL MIN	WALL MID	CH MODE 2ch	DEPTH ON	INPUT LEVEL MID	3D STEREO LEVEL 1	SURROUND AUTO	EQ ON							
6	DSP LOGIC	REAR R LEVEL MID	WALL MAX	CH MODE 3ch	DEPTH MODE VOCAL	INPUT LEVEL MAX	3D STEREO LEVEL 2		M1 (ALL CEN)							
7	S 4ch	REAR R LEVEL MAX	ROOM SIZE MIN	CH MODE 4ch	DEPTH MODE INSTRUMENT	FRONT L LEVEL MIN	3D STEREO LEVE 3		M2 (ALL MAX)							
8	F 4ch	DELAY TIME MIN	ROOM SIZE MID	CH MODE 5ch	DEPTH LEVEL MIN	FRONT L LEVEL MID	3D STEREO LEVE 4		M3 (ALL MIN)							
9	CENTER MODE NORMAL	DELAY TIME MID	ROOM SIZE MAX	DSP THROUGH	DEPTH LEVEL MID	FRONT L LEVEL MAX	3D STEREO LEVE 5	FL ALL OFF OFF	EEPROM TEST							FL ALL OFF OFF
A	CENTER MODE WIDE	DELAY TIME MAX	STEREO (KARAOKE)	DSP ARENA	DEPTH LEVEL MAX	FRONT R LEVEL MIN	KEYCON ♭	FL ALL OFF ON	EEPROM TEST OK							FL ALL OFF ON
B	CENTER MODE PHANTOM	(PRESENCE) EFFECT LEVEL MIN	MULTI (KARAOKE)	DSP JAZZ CLUB	SUB(OMNI) MUTE ON	FRONT R LEVEL MID	KEYCON ♮	ALL ON OFF	EEPROM TEST NG							ALL ON OFF
C	TEST TONE OFF	(PRESENCE) EFFECT LEVEL MID	HiFi MULTI (KARAOKE)	DSP STADIUM	DSP LOGIC LARGE	FRONT R LEVEL MAX	KEYCON ♯	ALL ON ON	LINE ON							ALL ON ON
D	TEST TONE ON	(PRESENCE) EFFECT LEVEL MAX	NORMAL (KARAOKE)	PRESENCE DISCO THEQUE	DSP LOGIC SMALL	REAR L LEVEL MIN	MATRIX SURROUND OFF	SURROUND INITIAL	TAPE ON							GE INITIAL
E	FRONT MUTE ON	ASFC MIN	ACOUSTIC NON DIRE1	PRESENCE CHURCH	ECHO OFF	REAR L LEVEL MID	MATRIX SURROUND ON	SURROUND SERIAL TEST OFF	EQ POP							GE SERIAL TEST OFF
F	CENTER MUTE ON	ASFC MID	ACOUSTIC NON DIRE2	PRESENCE MOVIE	ECHO 1	REAR L LEVEL MAX	KEYCON OFF	SURROUND SERIAL TEST ON	EQ ROCK							GE SERIAL TEST ON

■ : Sending code □ : Receiving code

106VR/107VR/KR-797/897/V6090/V7090

CIRCUIT DESCRIPTION

(C4XXH)

H \ L	VOLUME LEVEL															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	VOLUME 0	VOLUME 16	VOLUME 32	VOLUME 48	VOLUME 64	VOLUME 80										
1	VOLUME 1	VOLUME 17	VOLUME 33	VOLUME 49	VOLUME 65	VOLUME 81										
2	VOLUME 2	VOLUME 18	VOLUME 34	VOLUME 50	VOLUME 66	VOLUME 82										
3	VOLUME 3	VOLUME 19	VOLUME 35	VOLUME 51	VOLUME 67	VOLUME 83										
4	VOLUME 4	VOLUME 20	VOLUME 36	VOLUME 52	VOLUME 68	VOLUME 84										
5	VOLUME 5	VOLUME 21	VOLUME 37	VOLUME 53	VOLUME ∞	VOLUME 85										
6	VOLUME 6	VOLUME 22	VOLUME 38	VOLUME 54	VOLUME 70	VOLUME 86										
7	VOLUME 7	VOLUME 23	VOLUME 39	VOLUME 55	VOLUME 71	VOLUME 87										
8	VOLUME 8	VOLUME 24	VOLUME 40	VOLUME 56	VOLUME 72	VOLUME 88										
9	VOLUME 9	VOLUME 25	VOLUME 41	VOLUME 57	VOLUME 73	VOLUME 89										
A	VOLUME 10	VOLUME 26	VOLUME 42	VOLUME 58	VOLUME 74	VOLUME 90										
B	VOLUME 11	VOLUME 27	VOLUME 43	VOLUME 59	VOLUME 75	VOLUME 91										
C	VOLUME 12	VOLUME 28	VOLUME 44	VOLUME 60	VOLUME 76	VOLUME 92										
D	VOLUME 13	VOLUME 29	VOLUME 45	VOLUME 61	VOLUME 77	VOLUME 93										
E	VOLUME 14	VOLUME 30	VOLUME 46	VOLUME 62	VOLUME 78	VOLUME 94										
F	VOLUME 15	VOLUME 31	VOLUME 47	VOLUME 63	VOLUME 79	VOLUME 95										

■ : Sending code　□ : Receiving code

(C5XXH)

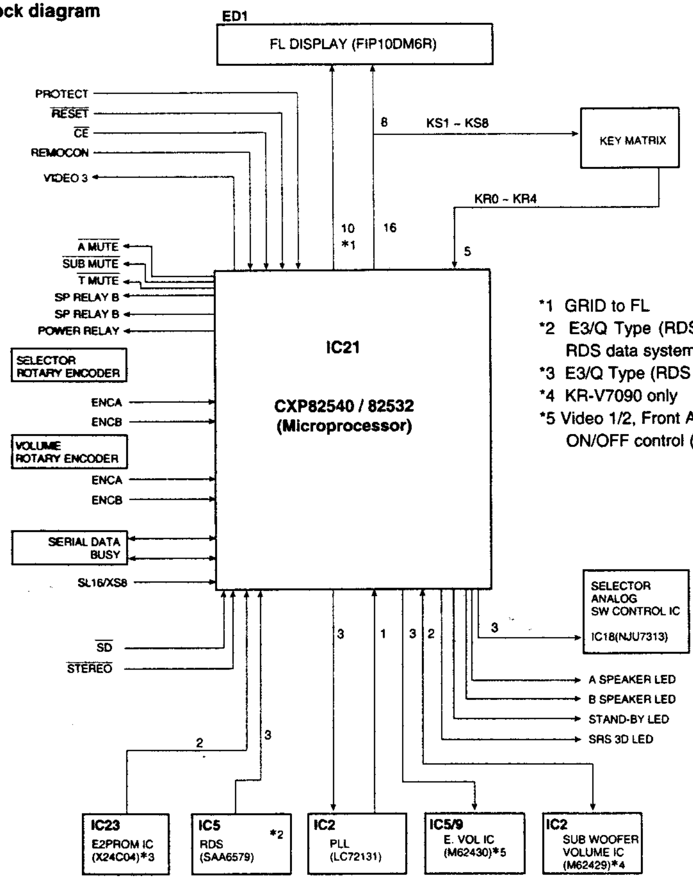
H \ L	VOLUME LEVEL															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	RF RECEIVE CHANNEL SET	MIDDLE MIN														
1	RF TRANSMIT CHANNEL SET	MIDDLE MID														
2	RF TRANSMIT MODULATION	MIDDLE MAX														
3	TRANSMIT NON MODULATION	SRS CENTER MIN														
4	RF BIDIREC-TIONAL COM ON	SRS CENTER MID														
5	RF BIDIREC-TIONAL COM OFF	SRS CENTER MAX														
6	CONFIGRA-TION 1	SRS SPACE MIN														
7	CONFIGRA-TION 2	SRS SPACE MID														
8	CONFIGRA-TION 3	SRS SPACE MAX														
9	INPUT TYPE AUTO															
A	INPUT TYPE RF															
B	INPUT TYPE DIGITAL OPT															
C	INPUT TYPE DIGITAL COAX															
D	INPUT TYPE ANALOG															
E																
F																

■ : Sending code　□ : Receiving code

CIRCUIT DESCRIPTION

7. Microprocessor : CXP82540/82532 (X09 : IC21)

Block diagram



*1 GRID to FL
*2 E3/Q Type (RDS feature installed) used RDS data system demodulator.
*3 E3/Q Type (RDS feature installed) only.
*4 KR-V7090 only
*5 Video 1/2, Front AUX, Surround DSP logic ON/OFF control (KR-V7090 only)

MODEL	UNIT NO	DESTINATION	MICROPROCESSOR
106VR	X09-4510-10	K/P	CXP82532-151Q
106VR	X09-4510-21	Y	CXP82532-151Q
KR-V6090	X09-4510-71	X	CXP82532-151Q
KR-V6090	X09-4512-71	T/E	CXP82540-152Q
107VR	X09-4510-11	K/P	CXP82532-151Q
107VR/KR-V7090	X09-4510-22	Y/M/V	CXP82532-151Q
KR-V7090	X09-4510-72	X	CXP82532-151Q
KR-797	X09-4510-12	K/P	CXP82532-151Q
KR-897	X09-4510-13	K/P	CXP82532-151Q
KR-797	X09-4512-91	Y	CXP82532-151Q
KR-V6090	X09-4513-81	Q	CXP82540-152Q
105VR	X09-4520-10	K/P	CXP82532-151Q
105VR/KR-V5090)	X09-4520-21	Y/M/V	CXP82532-151Q
KR-V5090	X09-4520-71	X	CXP82532-151Q
KR-V5090	X09-4522-71	T/E	CXP82540-152Q
KR-V5090	X09-4523-81	Q	CXP82540-152Q

CIRCUIT DESCRIPTION

7-1. Pin function

Pin No.	Pin name	I/O	Description	Active
1	PLL DO	I	IF count data	—
2	REMOTE	I	Remote control input	—
3	SYSTEM SW	I	Serial SL16/XS8 Selection	—
4~6	NC	–		—
7	SUR ST.	O	Surround IC strobe (LA2786/LV1016)	H
8	VR/SURROUND CK	O	M62430/LA2786/LV1016(Volume/surround) clock	L
9	VR ST	O	M62430(volume)strobe	L
10	VR/SURROUND DATA	O	M62430/LA2786/LV1016(Volume/surround) data	L
11	SEL/PLL CK	O	NJU7312/LC72131(selector/PLL)clock	L
12	SEL ST	O	Selector IC strobe (NJU7312)	L
13	SEL/PLL DATA	O	NJU7312/LC72131(Selector/PLL)data	L
14	KR0	I	Key return 0	H : KEY ON
15	KR1	I	Key return 1	H : KEY ON
16	KR2	I	Key return 2	H : KEY ON
17	KR3	I	Key return 3	H : KEY ON
18	KR4	I	Key return 4	H : KEY ON
19	POLAR/PILOT	O	Tuner polar/pilot selection signal	H : POLAR L : PILOT
20	S.BUSY	I/O	8/16 bit system busy	H : BUSY L : READY
21	S.DATA	I/O	8/16 bit system data	—
※22	S.LEVEL(RDS)	I	Signal level	—
23	STEREO	I	Stereo signal detection	L : STEREO ON
24	SD	I	Synchronized signal detection	L : SD ON
※25	E2PCK	O	E2Prom clock signal	—
※26	E2P DATA	I/O	E2Prom data signal	—
27	SW CK	O	M62429(sub woofer) clock	H
28	SW DA	O	M62429(sub woofer) data	H
29	CE	I	AC OFF(MAIN POWER) detection Signal	L : AC OFF
30	RESET	I	Microprocessor reset	L : RESET ON
31	EXTAL	I	4.19MHz oscillation	—
32	XTAL	O	4.19MHz oscillation	—
33	Vss	–	GND	—
34	PLL CE	O	PLL strobe	L : CE
35	AMUTE	O	Audio mute signal output	H : OFF L : ON
36	POWER	O	Power relay control	H : ON L : OFF
37	VIDEO3	O	Video3 (front Aux) ON/OFF output	H : ON L : OFF
38	BCLASS	O	A high efficiency amp ON/OFF control	H : OFF L : ON
39	TMUTE	O	Tuner mute control	L : MUTE ON
40	SUB MUTE	O	Sub mute signal output	H : OFF L : ON
41	SP.B	O	Speaker B relay control	H : ON L : OFF
42	SP.A	O	Speaker A relay control	H : ON L : OFF
43	SRS	O	SRS 3D LED control output	H : ON L : OFF
44	STAND BY	O	Stand by LED control output	H : ON L : OFF
45	S1	O	FL Segment 1	H : ON
46	S2	O	FL Segment 2	H : ON
47	S3/KS8	O	FL Segment 3/Key scan8	H : ON
48	S4/KS7	O	FL Segment 4/Key scan7	H : ON
49	S5/KS6	O	FL Segment 5/Key scan6	H : ON
50	S6/KS5	O	FL Segment 6/Key scan5	H : ON

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Description	Active
51	S7/KS4	O	FL Segment 7/Key scan4	H : ON
52	S8/KS3	O	FL Segment 8/Key scan3	H : ON
53	S9/KS2	O	FL Segment 9/Key scan2	H : ON
54	S10/KS1	O	FL Segment 10/Key scan1	H : ON
55	S11	O	FL Segment 11	H : ON
56	S12	O	FL Segment 12	H : ON
57	S13	O	FL Segment 13	H : ON
58	S14	O	FL Segment 14	H : ON
59	S15	O	FL Segment 15	H : ON
60	S16	O	FL Segment 16	H : ON
61	10G	O	FL grid 10	—
62	9G	O	FL grid 9	—
63	8G	O	FL grid 8	—
64	7G	O	FL grid 7	—
65	6G	O	FL grid 6	—
66	5G	O	FL grid 5	—
67	4G	O	FL grid 4	—
68	3G	O	FL grid 3	—
69	2G	O	FL grid 2	—
70	1G	O	FL grid 1	—
71	VFDP	–	FL drive power supply (-30V)	—
72	VDD	–	Microprocessor power supply (+5V)	—
73	NC	–	Microprocessor power supply (+5V)	—
74	VOL A	I	Volume encoder input A	—
75	VOL B	I	Volume encoder input B	—
76	SEL A	I	Selector encoder input A	—
77	SEL B	I	Selector encoder input B	—
※78	RDS CK	I	RDS clock	—
※79	RDS DATA	I	RDS data	—
80	PROTECT	I	Protection signal input	H : PROTECTION ON

※ E/T/Q type only, other types unused.
The RDS PTY AF search always corresponds to a span search of 100kHz. Therefore, a span search of 50kHz cannot be performed.

ADJUSTMENT

FM SECTION INPUT SELECTOR : FM MODE

X05-470X-XX

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISCRIMINATOR	(A) 98 MHZ, 60dBµ (ANT INPUT) 1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±75 kHz DEV (OTHER TYPE)	Connect a DC voltmeter between pin 1 and pin2 of CN2.	MONO 98.0 MHz	L31	0V	(a)
					L32 (EXCEPT K/P)	Minimum distortion.	
2	DISTORTION (STEREO)	(B) 98 MHz, 60dBµ (ANT INPUT) 1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±67.5 kHz DEV PILOT ±7.5 kHz DEV OTHER TYPE	(E)	AUTO 98.0 MHz	T 1 (A1)	Minimum distortion.	(a)

X05-4690-XX

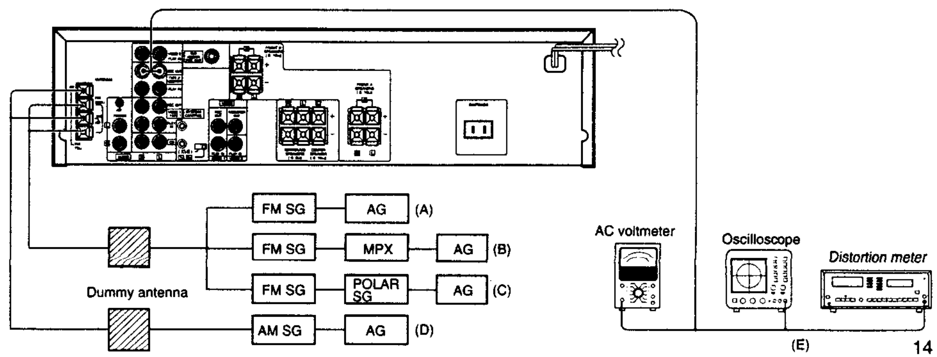
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISTORTION (STEREO)	(B) 98 MHz, 60dBµ (ANT INPUT) 1 kHz, ±67.5 kHz DEV PILOT: ±7.5 kHz DEV	(E)	AUTO 98.0 MHz	T1 (A1)	Minimum distortion.	(a)

POLAR UNIT

X04-1313-xx Q TYPE (65MHz~74MHz BAND)

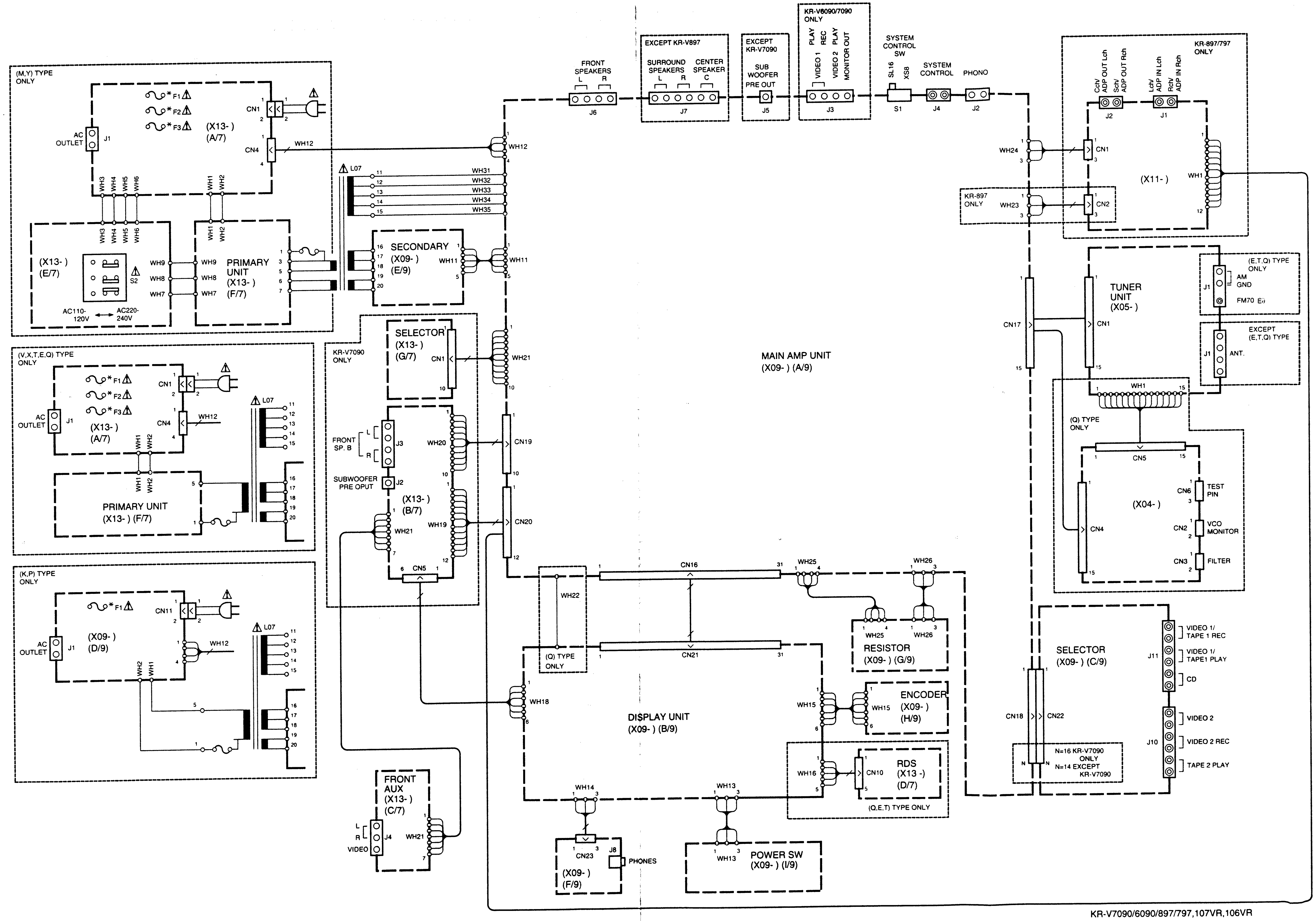
N0.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	VCO	(C) 69 MHz, 60 dBµ (ANT INPUT) 1 kHz, 0 kHz DEV SUB, 0 kHz DEV	Connect a frequency counter to VCO monitor (CN2).	AUTO 69 MHz	VR 2	Adjust it the frequency counter reads 31.25 kHz ±100 kHz.	
2	SEPARATION	(C) 69 MHz, 60 dBµ (ANT INPUT) 1 kHz, 40 kHz DEV SUB, 10 kHz DEV Select : L or R	Connect a oscilloscope to TUNER OUT(CN6).	AUTO 69 MHz	TC 1	Minimum crosstalk.	
3	SEPARATION	(C) SAME AS ABOVE	Connect a oscilloscope to TUNER OUT(CN6).	AUTO 69 MHz	VR 1	Minimum crosstalk.	

INSTRUMENTS CONNECTION



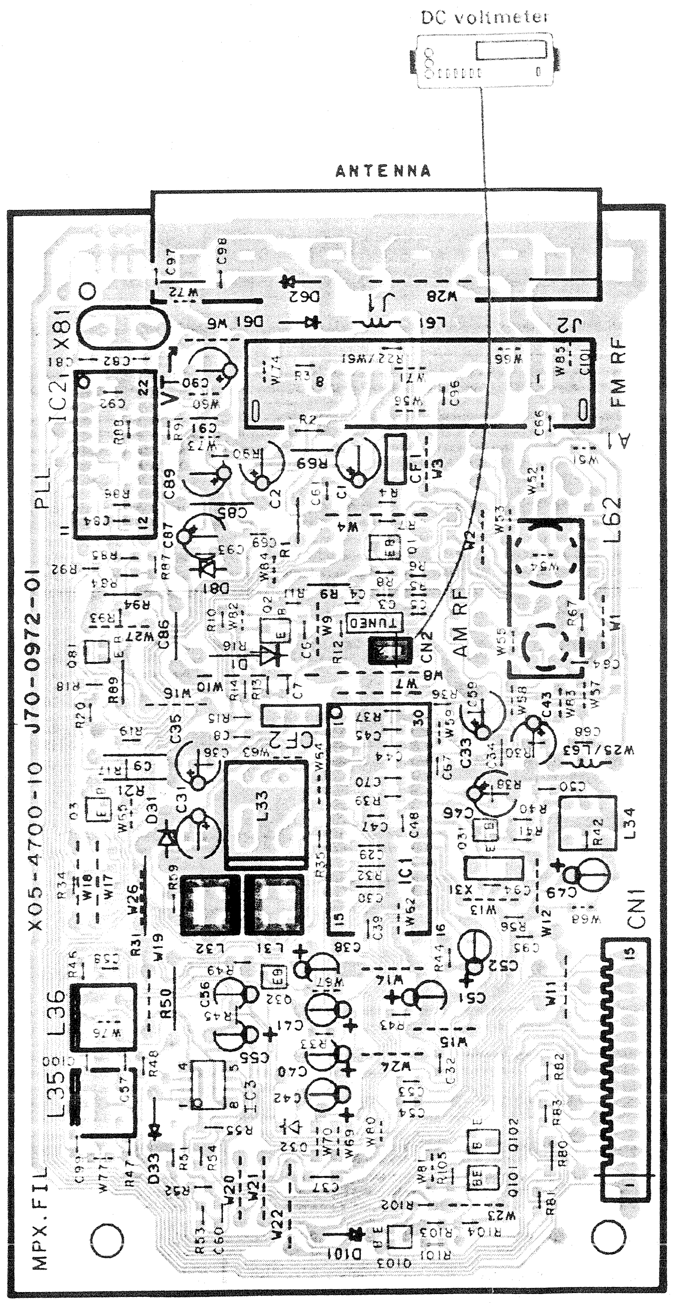
106VR/107VR/KR-797/897/V6090/V7090

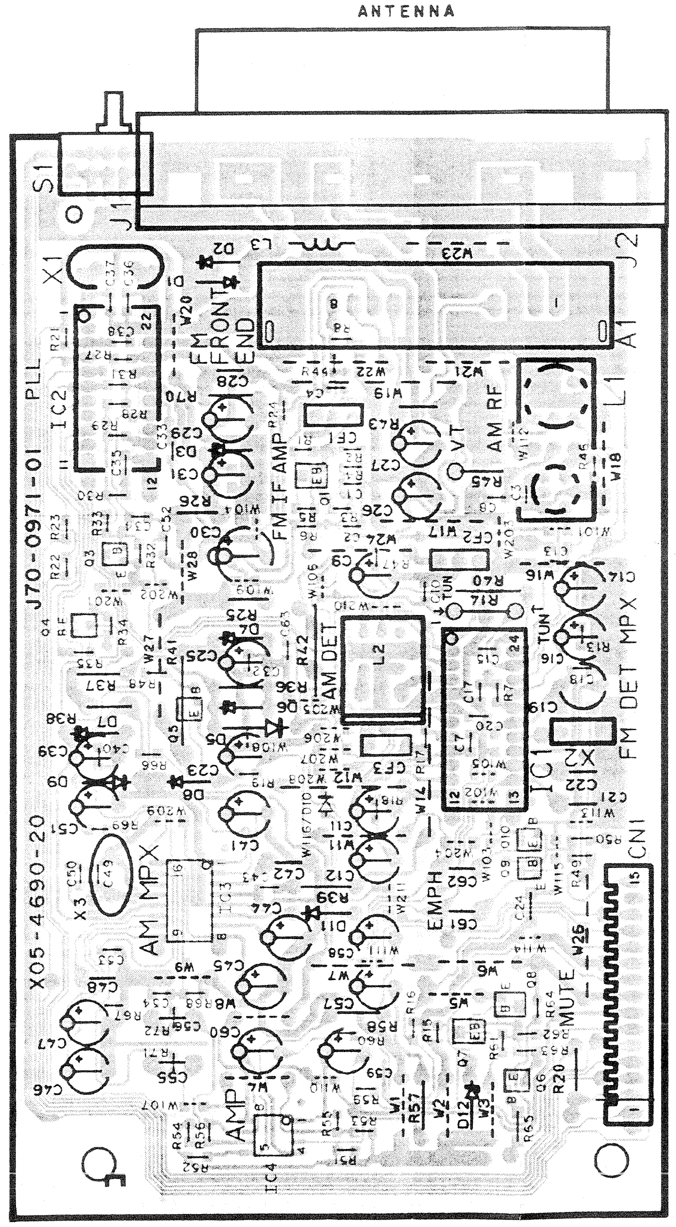
WIRING DIAGRAM

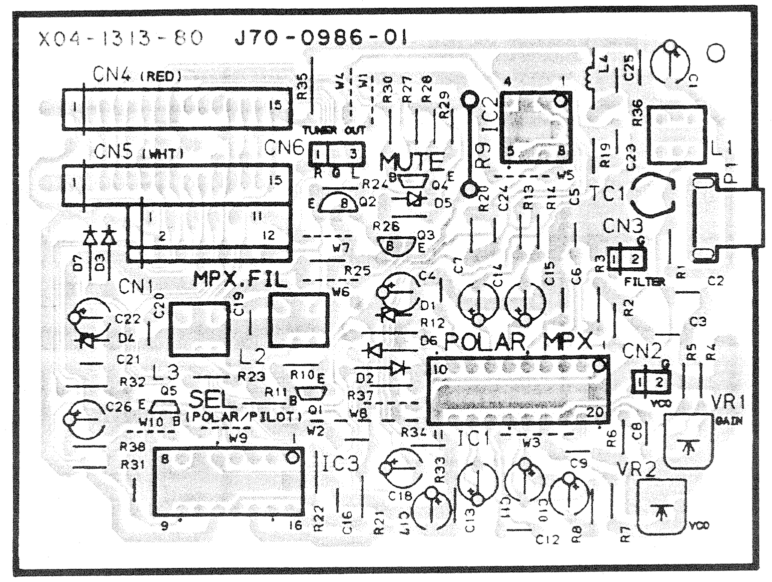


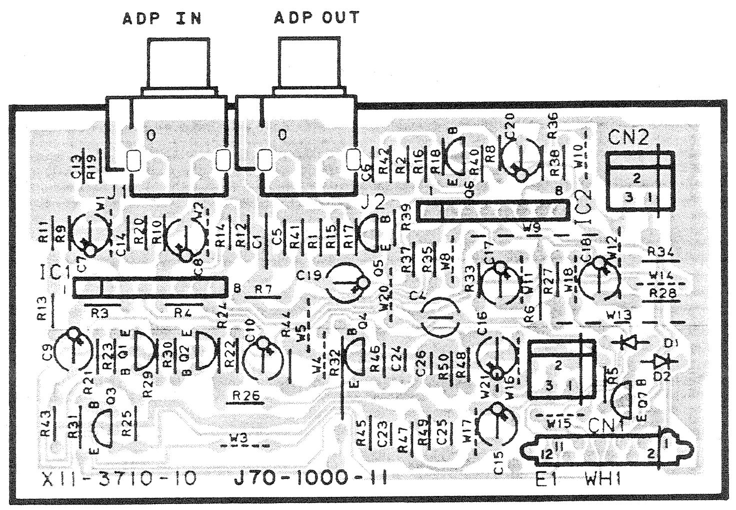
PC BOARD (Component side view)

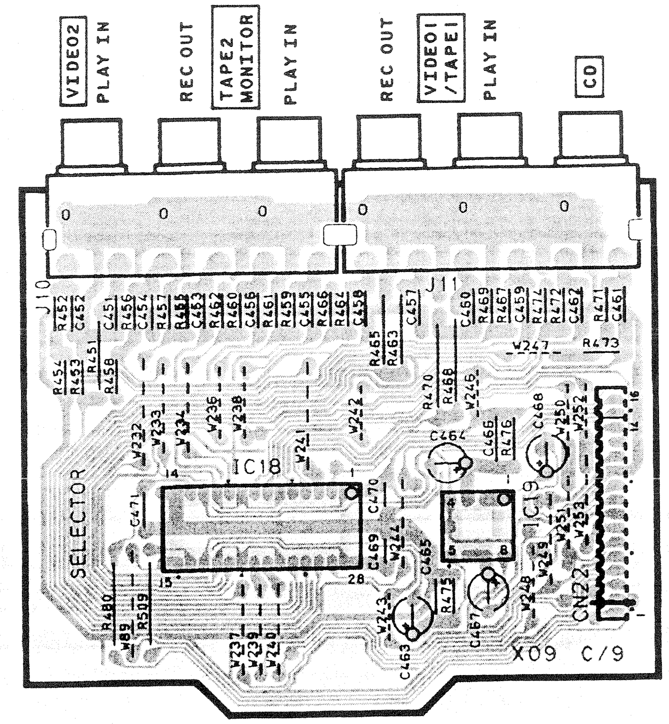
(a) Dscriminator : L31 0V
L32 Minimum distortion. (Except K,P)





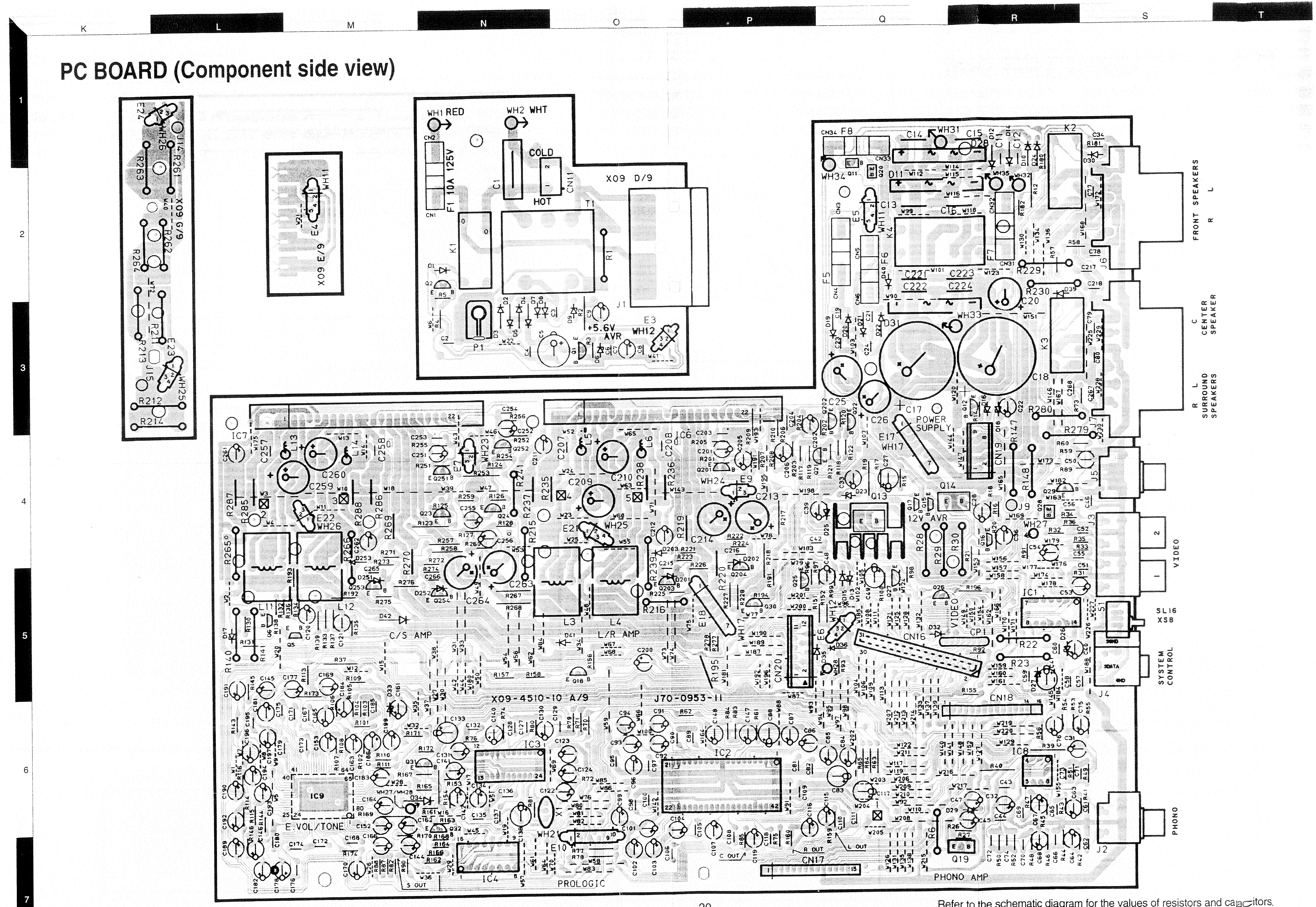






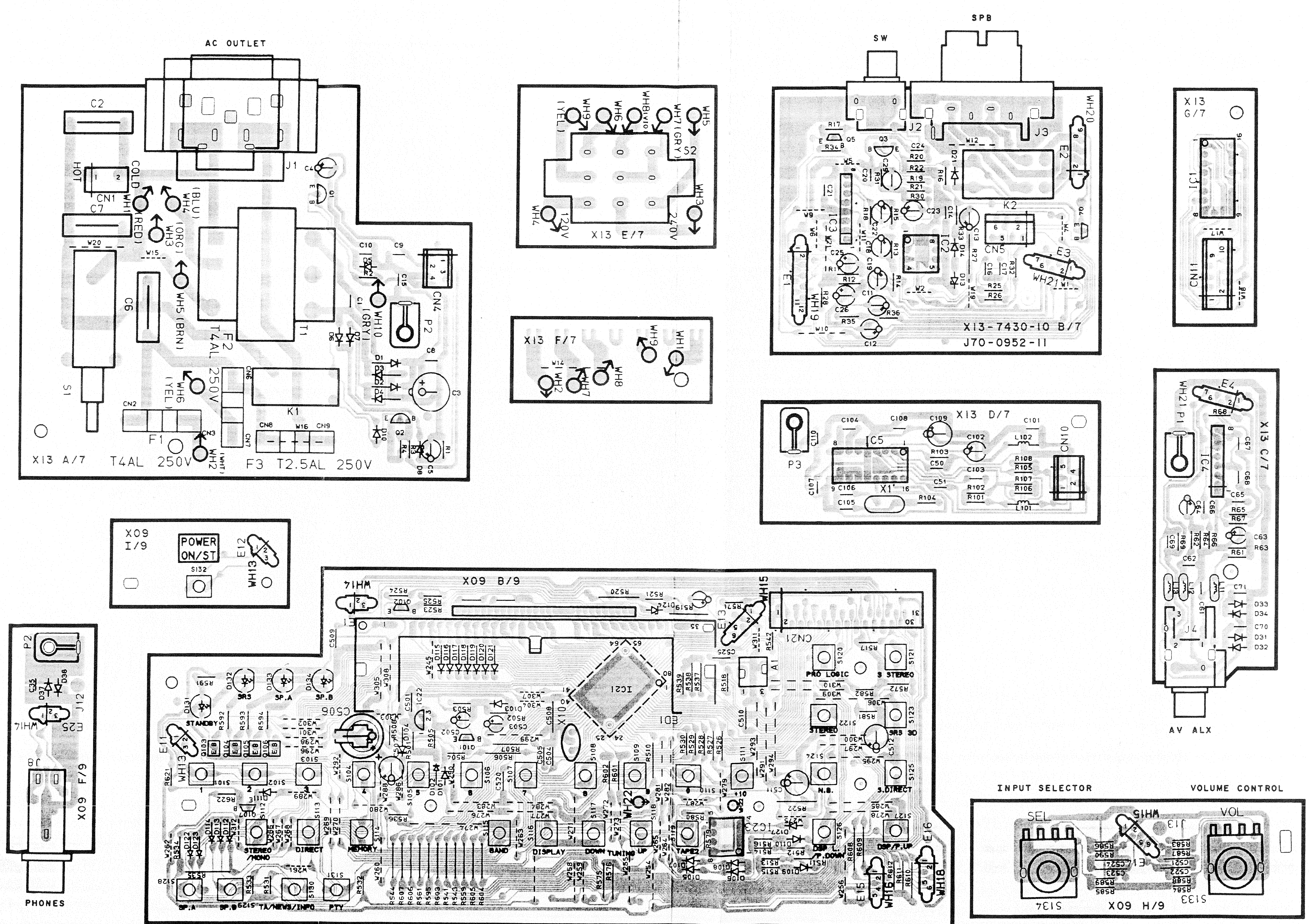
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)



Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

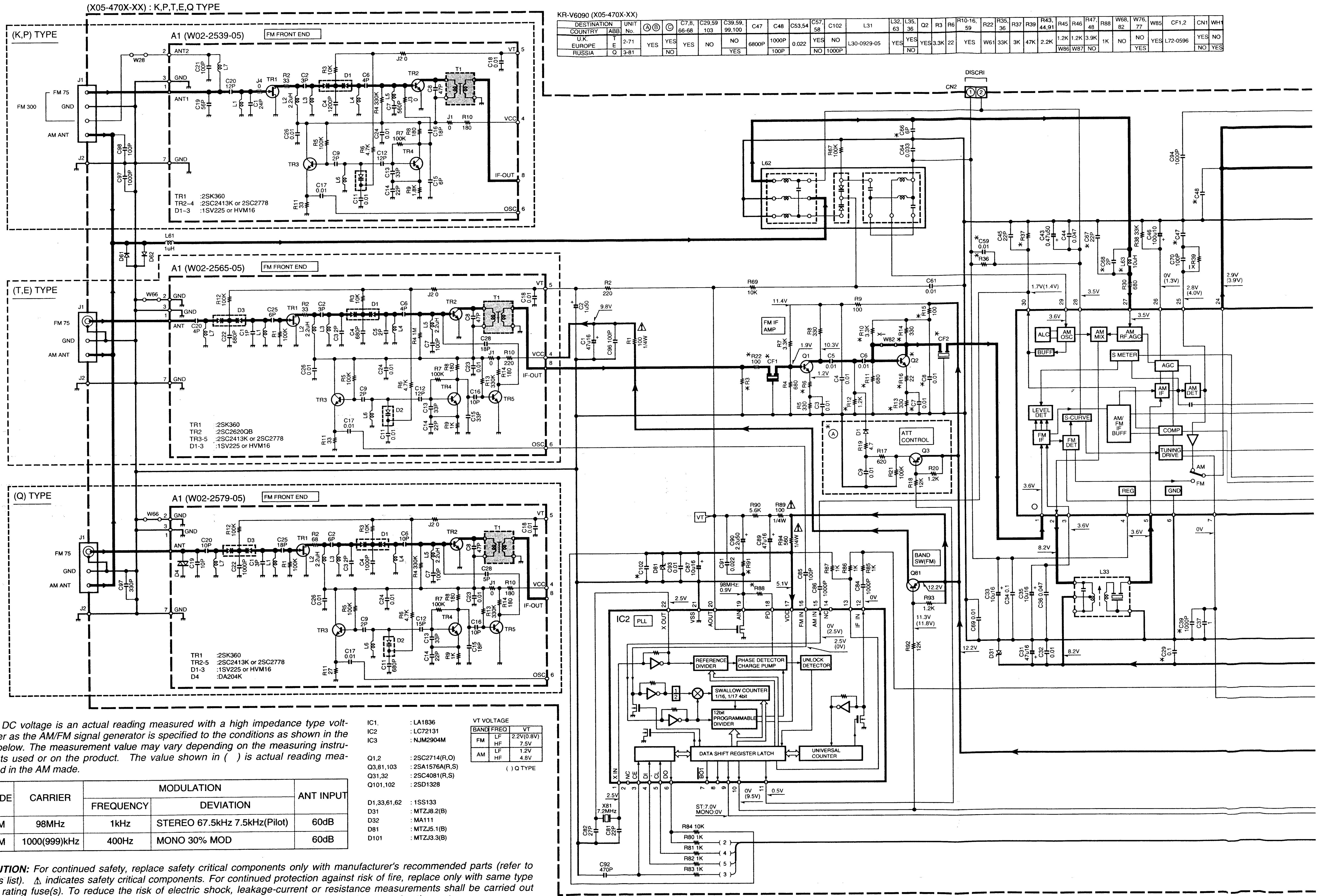


Refer to the schematic diagram for the values of resistors and capacitors.

KR-V6090 (X05-470X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	ⒶⒷ	Ⓒ	C7,8, 66-68	C29,59 103	C39,59, 99,100	C47	C48	C53,54	C57, 58	C102	L31	L32, 63	L35, 36	Q2	R3	R6
U.K. EUROPE	T E	2-71	YES	YES	YES	NO	NO	6800P	1000P	0.022	YES	NO	L30-0929-05	YES	YES	YES	3.3K	22
RUSSIA	Q	3-81		NO			YES		100P		NO	1000P			NO			

DESTINATION COUNTRY	R10-16, 59	R22	R35, 36	R37	R39	R43, 44,91	R45	R46	R47, 48	R88	W68, 82	W76, 77	W85	CF1,2	CN1	WH1
U.K. EUROPE	YES	W61	33K	3K	47K	2.2K	1.2K	1.2K	3.9K	1K	NO	NO	YES	L72-0596	YES	NO
RUSSIA							W86	W87	NO			YES			NO	YES



The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM made.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

IC1	: LA1836
IC2	: LC72131
IC3	: NJM2904M
Q1,2	: 2SC2714(R,O)
Q3,81,103	: 2SA1576A(R,S)
Q31,32	: 2SC4081(R,S)
Q101,102	: 2SD1328
D1,33,61,62	: 1SS133
D31	: MTZJ8.2(B)
D32	: MA111
D81	: MTZJ5.1(B)
D101	: MTZJ3.3(B)

VT VOLTAGE

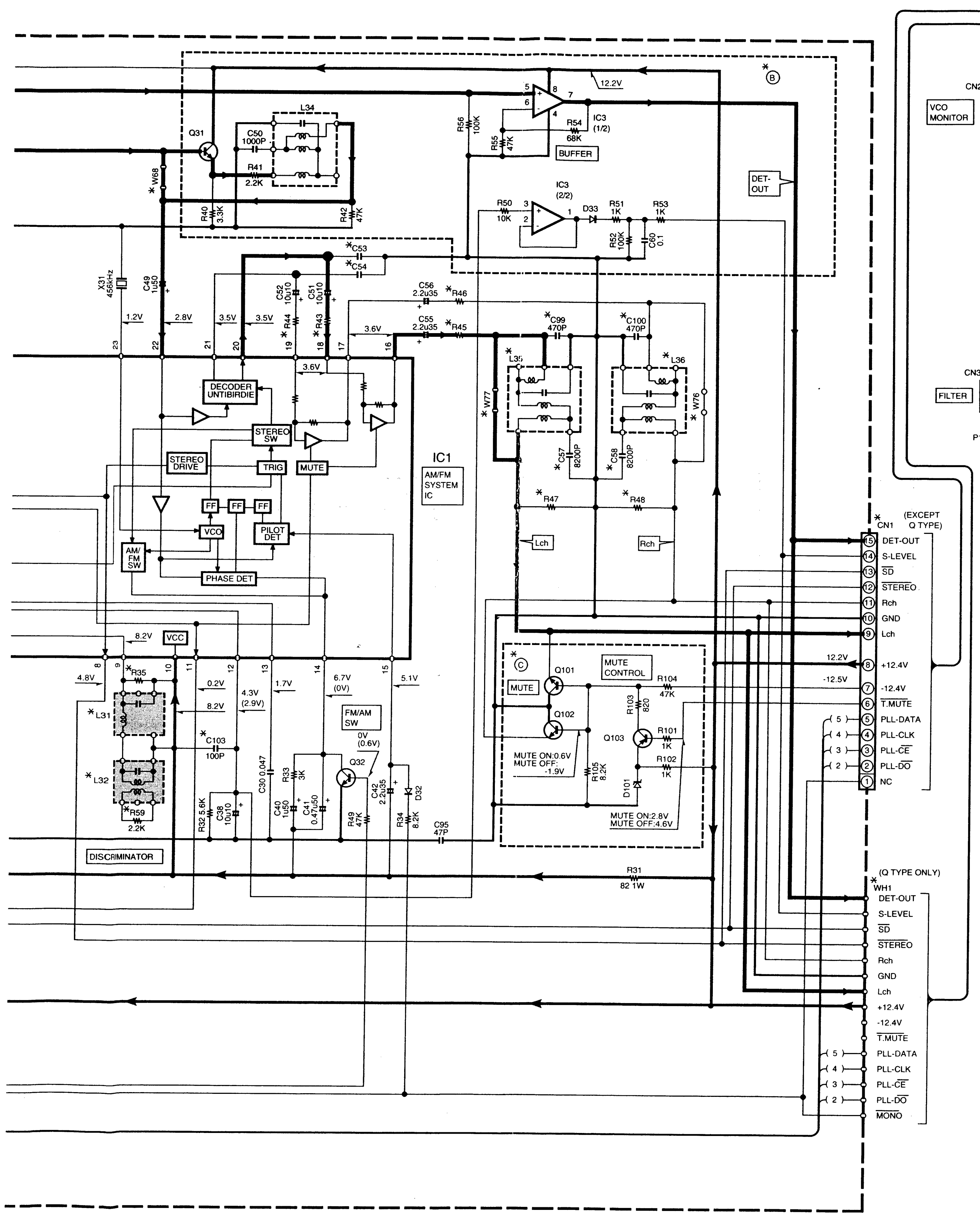
BAND	FREQ	VT
FM	LF	2.2V(0.8V)
	HF	7.5V
AM	LF	1.2V
	HF	4.8V

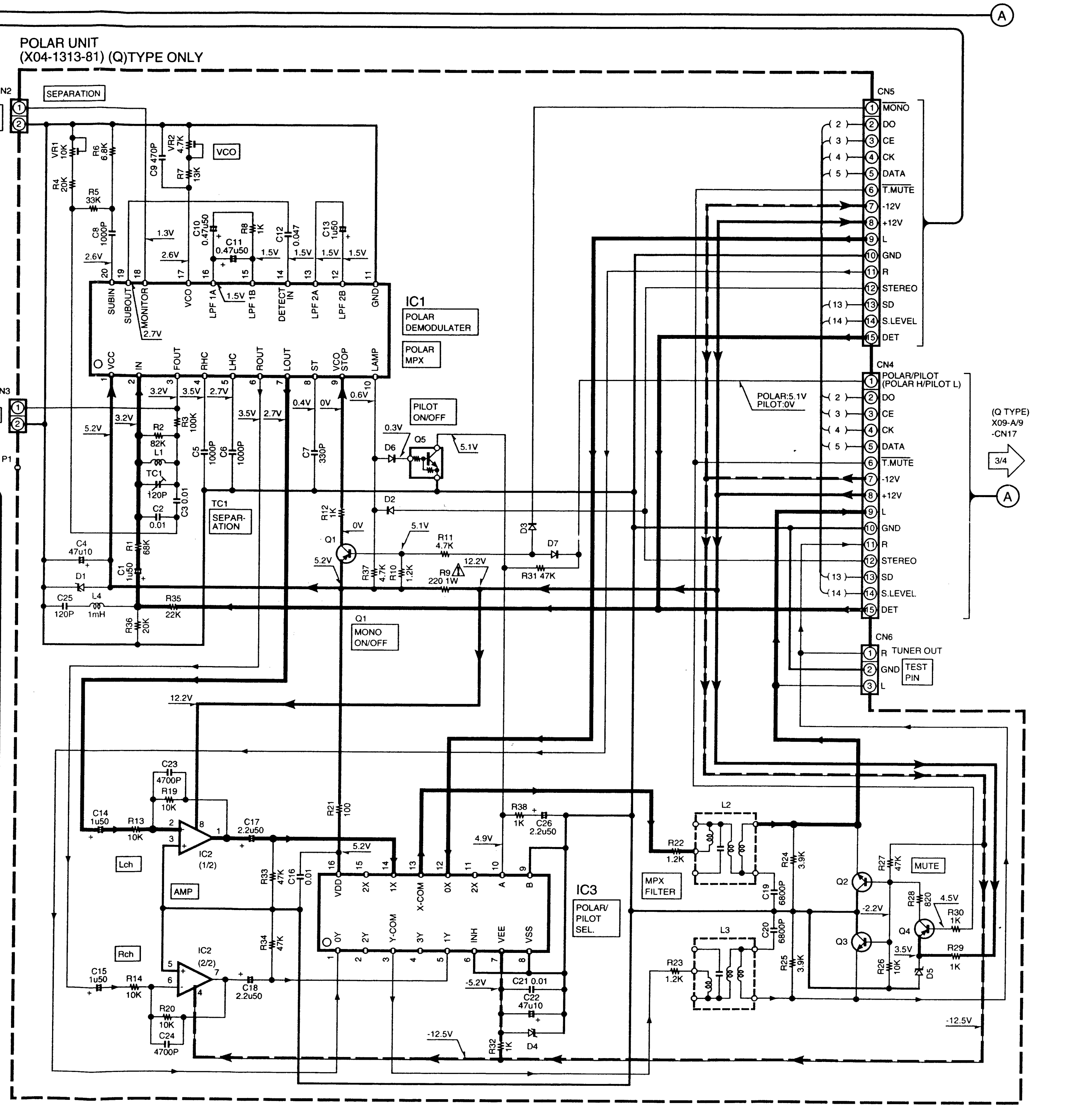
( ) Q TYPE

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

KR-897/797,107VR,106VR (X05-470X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	Ⓐ Ⓑ	Ⓒ	C7,8,57,58, 66-68	C29,39,59, 99,100,103	C47	C48	C53,54	C102	L31	L32, 35,36	L63	Q2	R3	R6	R10-16, 59	R22	R35, 43,44	R36	R37	R39	R45, 46	R47, 48	R88	R91	W68,76, 77,82	W85	CF1,2	CN1	WH1
U.S.A. CANADA	K P	0-10	NO	YES	NO	YES	5600P	1200P	0.033	180P	L30-0910-05	NO	W25	NO	330	10	NO	100	3.9K	24K	3.6K	22K	3.3K	39K	10K	1K	YES	NO	L72-0536	YES	NO





KR-V6090/897/797,107VR,106VR(K) (1/4)

(X04-)

IC1	: IR3R42
IC2	: NJM4565D
IC3	: TC4052BP
Q1,4	: 2SA933AS(Q,R) or 2SA1175(F,E)
Q2,3	: 2SC2878(B)
Q5	: DTC124ESA or UN4212
D1,4	: MTZJ5.1(B) or UZ-5.1BSB
D2,3,6,7	: 1SS133 or HSS104
D5	: MTZJ3.3(B) or UZ-3.3BSB

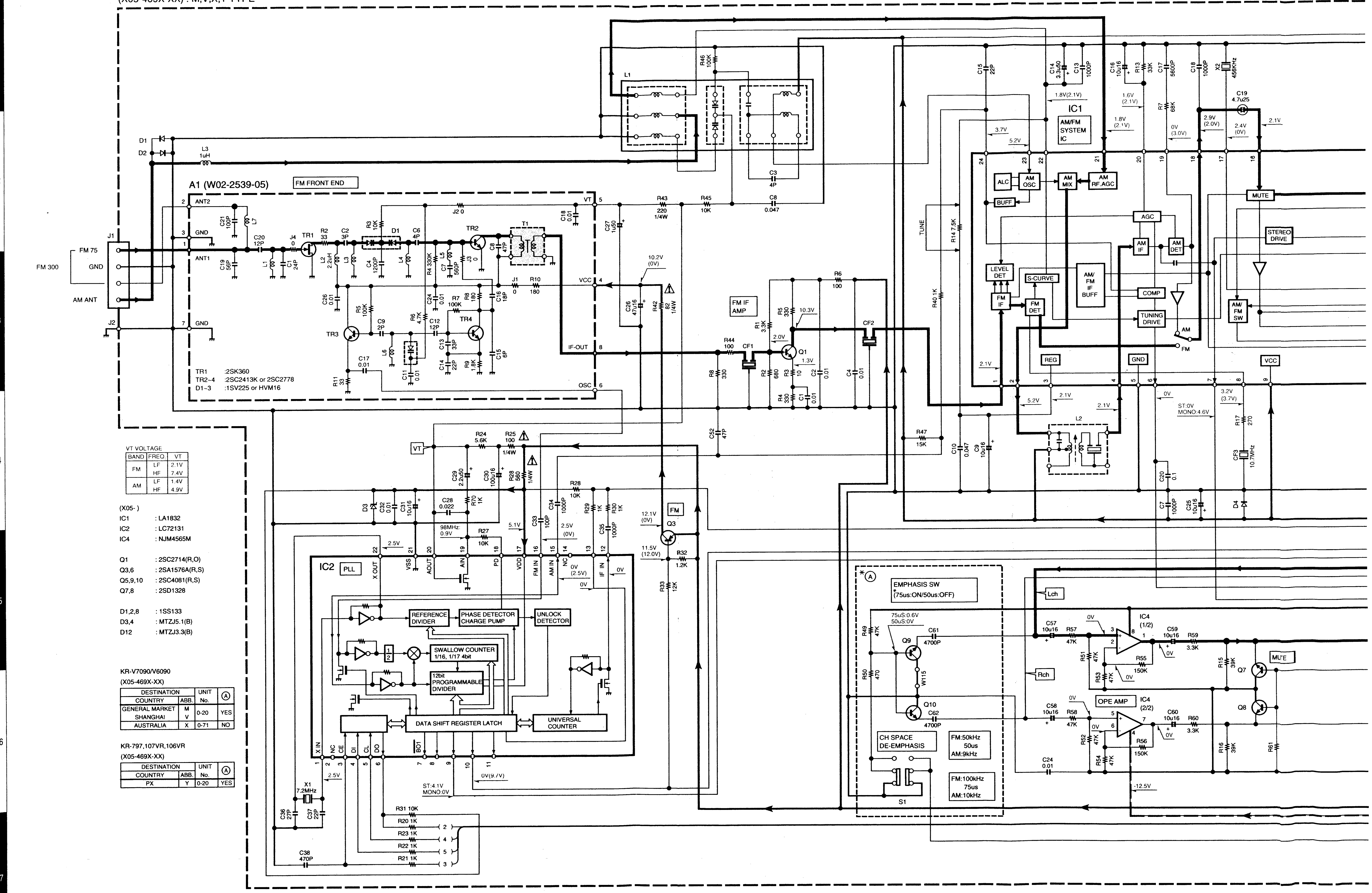
SIGNAL LINE
GND LINE
+B LINE
-B LINE

Y05-3280-10

106VR/107VR/KR-797/897/V6090/V709)

KENWOOD

(X05-469X-XX) : M,V,X,Y TYPE



VT VOLTAGE

BAND	FREQ.	VT
FM	LF	2.1V
	HF	7.4V
AM	LF	1.4V
	HF	4.9V

(X05-)

IC1 : LA1832
IC2 : LC72131
IC4 : NJM4565M

Q1 : 2SC2714(R,O)
Q3,6 : 2SA1576A(R,S)
Q5,9,10 : 2SC4081(R,S)
Q7,8 : 2SD1328

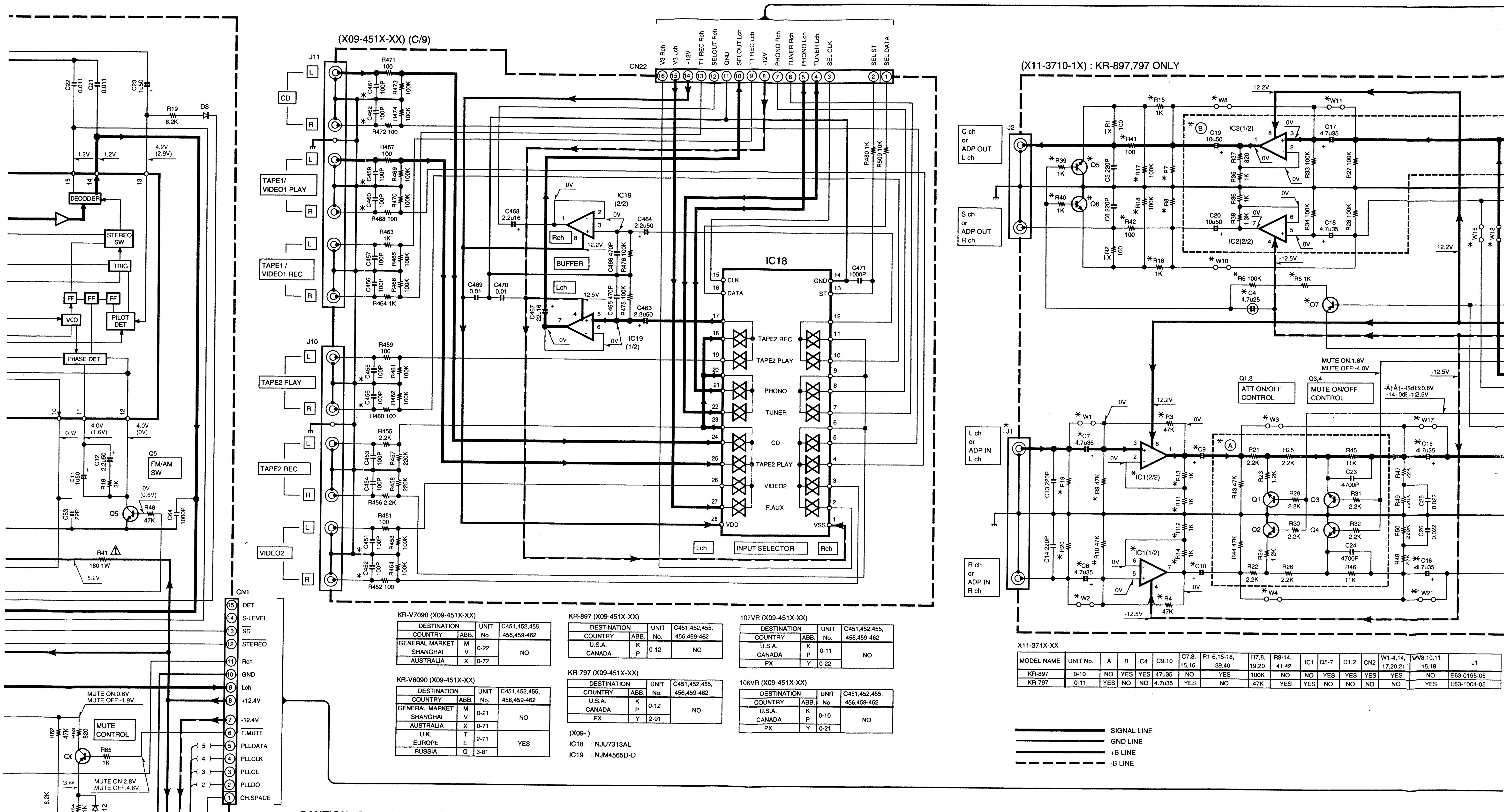
D1,2,8 : 1SS133
D3,4 : MTZJ5.1(B)
D12 : MTZJ3.3(B)

KR-V7090/V6090
(X05-469X-XX)

DESTINATION		UNIT	Ⓐ
COUNTRY	ABB.	No.	
GENERAL MARKET	M	0-20	YES
SHANGHAI	V		
AUSTRALIA	X	0-71	NO

KR-797,107VR,106VR
(X05-469X-XX)

DESTINATION		UNIT	Ⓐ
COUNTRY	ABB.	No.	
PX	Y	0-20	YES



KR-V7090 (X09-451X-XX)

DESTINATION		UNIT	C451,452,455,
COUNTRY	ABB.	No.	456,459-462
GENERAL MARKET	M	0-22	NO
SHANGHAI	V		
AUSTRALIA	X	0-72	

KR-V6090 (X09-451X-XX)

DESTINATION		UNIT	C451,452,455,
COUNTRY	ABB.	No.	456,459-462
GENERAL MARKET	M	0-21	NO
SHANGHAI	V		
AUSTRALIA	X	0-71	
U.K.	T	2-71	YES
EUROPE	E		
RUSSIA	Q	3-81	

KR-897 (X09-451X-XX)

DESTINATION		UNIT	C451,452,455,
COUNTRY	ABB.	No.	456,459-462
U.S.A.	K	0-12	NO
CANADA	P		

KR-797 (X09-451X-XX)

DESTINATION		UNIT	C451,452,455,
COUNTRY	ABB.	No.	456,459-462
U.S.A.	K	0-12	NO
CANADA	P		
PX	Y	2-91	

(X09-)
IC18 : NJU7313AL
IC19 : NJM4565D-D

107VR (X09-451X-XX)

DESTINATION		UNIT	C451,452,455,
COUNTRY	ABB.	No.	456,459-462
U.S.A.	K	0-11	NO
CANADA	P		
PX	Y	0-22	

106VR (X09-451X-XX)

DESTINATION		UNIT	C451,452,455,
COUNTRY	ABB.	No.	456,459-462
U.S.A.	K	0-10	NO
CANADA	P		
PX	Y	0-21	

X11-371X-XX

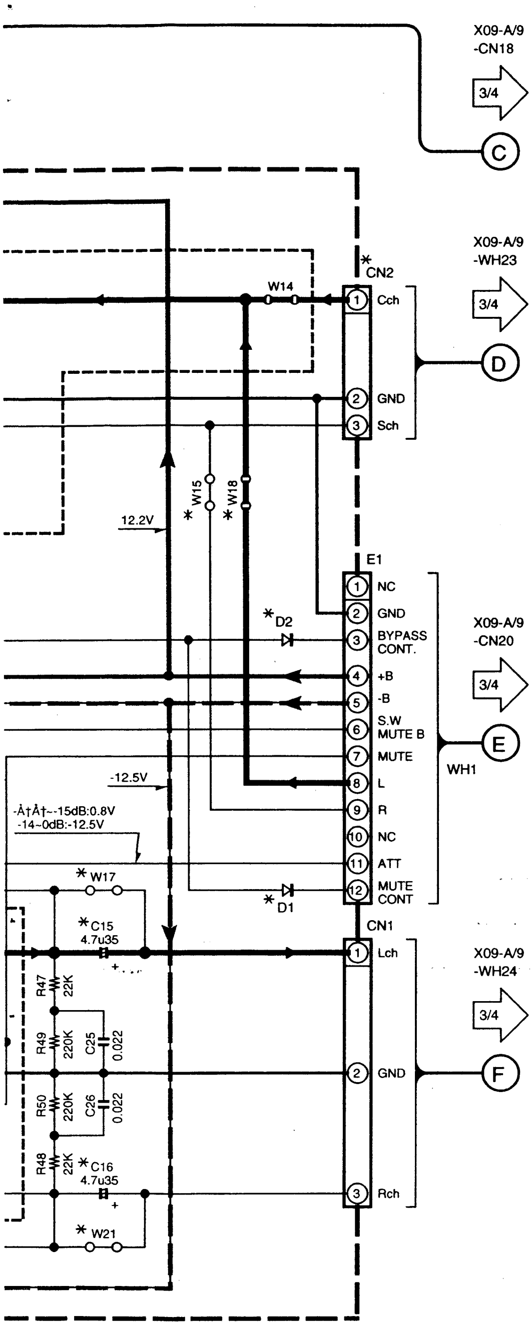
MODEL NAME	UNIT No.	A	B	C4	C9,10	C7,8, 15,16	R1-6,15-18, 39,40	R7,8, 19,20	R9-14, 41,42	IC1	Q5-7	D1,2	CN2	W1-4,14, 17,20,21	W8,10,11, 15,18	J1
KR-897	0-10	NO	YES	YES	47u35	NO	YES	100K	NO	NO	YES	YES	YES	YES	NO	E63-0195-05
KR-797	0-11	YES	NO	NO	4.7u35	YES	NO	47K	YES	YES	NO	NO	NO	NO	YES	E63-1004-05

SIGNAL LINE
GND LINE
+B LINE
-B LINE

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM made.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB



W1-4,14, 17,20,21	W8,10,11, 15,18	J1
YES	NO	E63-0195-05
NO	YES	E63-1004-05

(X11-)

IC1,2 : NJM4565L
Q1-6 : 2SC2878(B)
Q7 : 2SA933AS(Q,R)
D1,2 : 1SS133





KR-V7090 (X09-451X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	E7	E9	E10	E22, 24	CN18	CN19	CN20	C17, 18	C46, 77-80	C128,132, 200	R73	R74,76,82,87,88, 156-158,181,182	R140, R141	R145, R146	R180	R211-214	R259	R260	R261-264	Q18	W46,187, 191,200	W176, 177	W185	W205	W228, 229	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04
GENERAL MARKET	M	0-22	YES	YES	YES	NO	NO	NO	YES	YES	16PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO
SHANGHAI	V	0-22	YES	YES	YES	NO	NO	NO	YES	YES	16PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO
AUSTRALIA	X	0-72	YES	YES	YES	NO	NO	NO	YES	YES	16PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO

KR-V6090 (X09-451X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	E7	E9	E10	E22, 24	CN18	CN19	CN20	C17, 18	C46, 77-80	C128,132, 200	R73	R74,76,82,87,88, 156-158,181,182	R140, R141	R145, R146	R180	R211-214	R259	R260	R261-264	Q18	W46,187, 191,200	W176, 177	W185	W205	W228, 229	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04
GENERAL MARKET	M	0-21	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	NO
SHANGHAI	V	0-21	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	NO
AUSTRALIA	X	0-71	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	NO
U.K. / EUROPE	T / E	2-71	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u71	YES	NO	YES	NO	6.8K 2W	4.7K	YES	6.8K 2W	120	120	6.8K 2W	NO	NO	YES	NO	YES	YES	NO	NO	NO	NO	YES	YES	NO	NO
RUSSIA	Q	3-81	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u71	YES	NO	YES	NO	6.8K 2W	4.7K	YES	6.8K 2W	120	120	6.8K 2W	NO	NO	YES	NO	NO	YES	NO	NO	NO	NO	YES	YES	NO	YES

KR-897 (X09-451X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	E7	E9	E10	E22, 24	CN18	CN19	CN20	C17, 18	C46, 77-80	C128,132, 200	R73	R74,76,82,87,88, 156-158,181,182	R140, R141	R145, R146	R180	R211-214	R259	R260	R261-264	Q18	W46,187, 191,200	W176, 177	W185	W205	W228, 229	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04
U.S.A. / CANADA	K / P	0-13	NO	NO	YES	YES	YES	YES	NO	NO	14PIN	NO	NO	4700u80	NO	NO	NO	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	NO	NO	YES	NO	YES	YES	NO	YES	NO	YES	YES	NO	NO	YES	NO

KR-797 (X09-451X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	E7	E9	E10	E22, 24	CN18	CN19	CN20	C17, 18	C46, 77-80	C128,132, 200	R73	R74,76,82,87,88, 156-158,181,182	R140, R141	R145, R146	R180	R211-214	R259	R260	R261-264	Q18	W46,187, 191,200	W176, 177	W185	W205	W228, 229	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04
U.S.A. / CANADA	K / P	0-12	YES	NO	NO	YES	NO	YES	NO	YES	14PIN	NO	YES	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	YES	NO	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO
PX	Y	2-91	YES	NO	NO	YES	NO	YES	NO	YES	14PIN	NO	YES	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	YES	NO	NO	YES	NO	YES	NO	NO	YES	YES	NO	NO	NO

107VR (X09-451X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	E7	E9	E10	E22, 24	CN18	CN19	CN20	C17, 18	C46, 77-80	C128,132, 200	R73	R74,76,82,87,88, 156-158,181,182	R140, R141	R145, R146	R180	R211-214	R259	R260	R261-264	Q18	W46,187, 191,200	W176, 177	W185	W205	W228, 229	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04
U.S.A. / CANADA	K / P	0-11	YES	YES	YES	NO	NO	NO	YES	YES	14PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO
PX	Y	0-22	YES	YES	YES	NO	NO	NO	YES	YES	14PIN	YES	YES	4700u80	NO	YES	NO	YES	8.2K 2W	2.7K	NO	8.2K 2W	91	68	8.2K 2W	YES	NO	NO	NO	YES	NO	YES	YES	NO	NO	YES	YES	NO	NO

106VR (X09-451X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	E7	E9	E10	E22, 24	CN18	CN19	CN20	C17, 18	C46, 77-80	C128,132, 200	R73	R74,76,82,87,88, 156-158,181,182	R140, R141	R145, R146	R180	R211-214	R259	R260	R261-264	Q18	W46,187, 191,200	W176, 177	W185	W205	W228, 229	W230	WH21	WH23	WH24	WH26	WH27	WH28	1:E23-0047-04
U.S.A. / CANADA	K / P	0-10	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	NO
PX	Y	0-21	YES	YES	YES	YES	NO	NO	NO	YES	14PIN	NO	NO	4700u80	NO	NO	YES	NO	8.2K 2W	2.7K	YES	8.2K 2W	91	68	8.2K 2W	NO	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	YES	NO	NO

KR-V7090 (X13-743X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	X13-B/7 X13-C/7 X13-G/7
GENERAL MARKET	M	0-21	YES
SHANGHAI	V	2-11	
AUSTRALIA	X	0-71	

KR-V6090 (X13-744X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	X13-B/7 X13-C/7 X13-G/7
GENERAL MARKET	M	0-20	NO
SHANGHAI	V	2-11	
AUSTRALIA	X	0-71	
U.K. / EUROPE	T / E	0-51	
RUSSIA	Q	2-71	

KR-797 (X13-744X-XX)

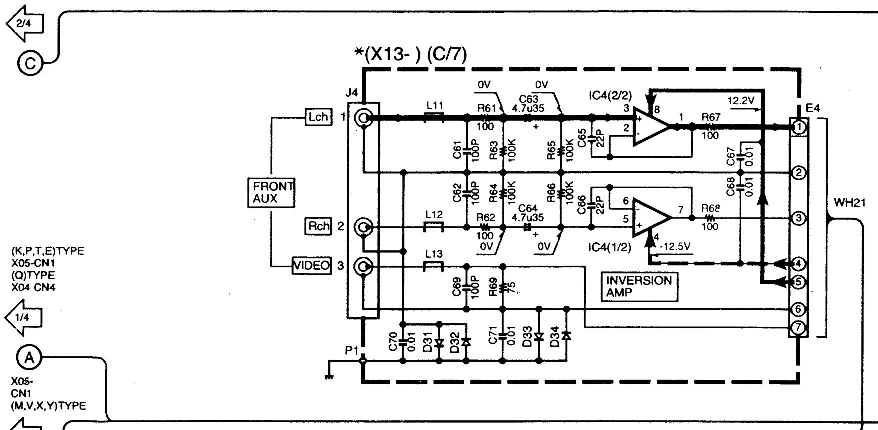
DESTINATION COUNTRY	ABB	UNIT No.	X13-B/7 X13-C/7 X13-G/7
PX	Y	2-91	NO

107VR (X13-743X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	X13-B/7 X13-C/7 X13-G/7
U.S.A. / CANADA	K / P	0-10	YES
PX	Y	2-91	YES

106VR (X13-744X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	X13-B/7 X13-C/7 X13-G/7
PX	Y	2-91	NO



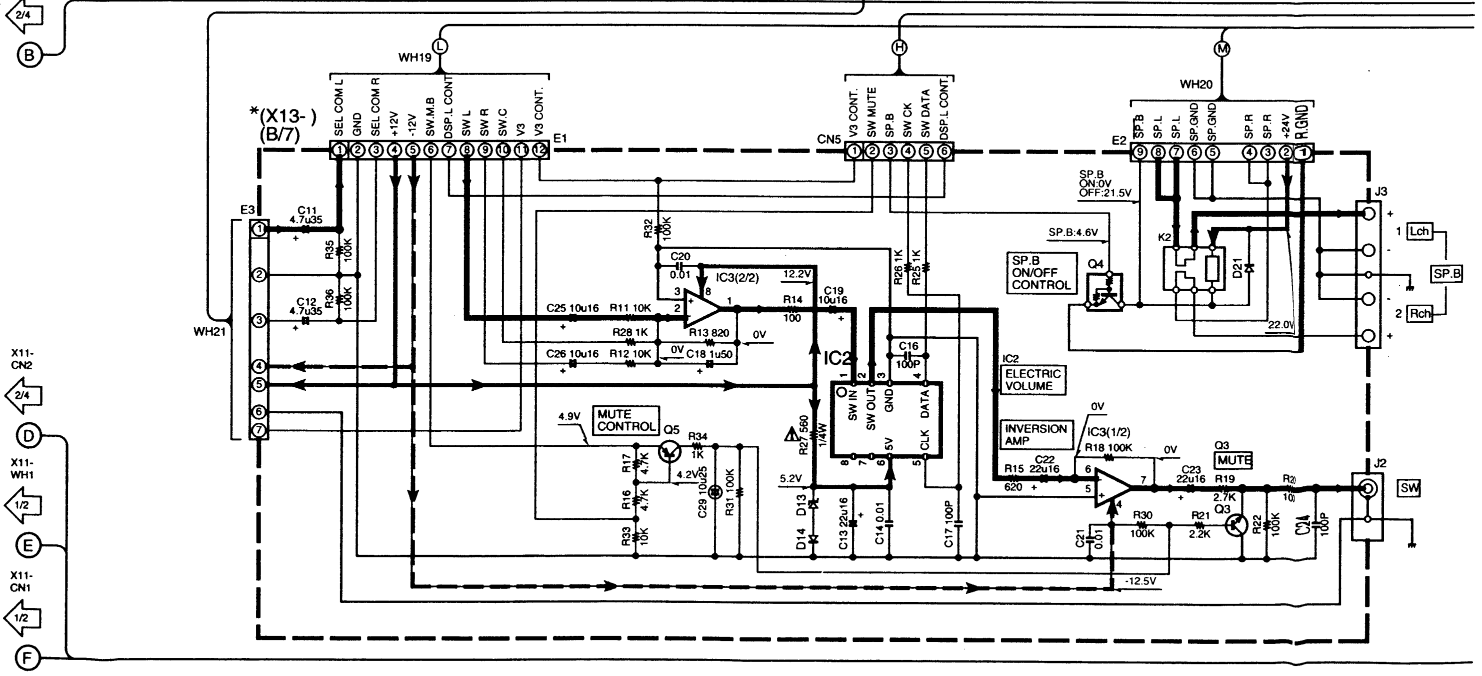
(X09-) (A/9)

IC1	: NJM2279D
IC2	: LA2786
IC3	: LV1016
IC4	: TC9215AP
IC6,7	: STK426-530K
IC8	: NJM4580D-D
IC9	: M62430FP
D10,12,14,19-22,24	: S5688B or 1SR139-400
D11,28,31	: D5SBA20F03
D13,26,27	: MTZJ5.1(B)
D15,25,30,32,35,36, 39,111-123,201-203, 251-253	: 1SS131
D16,18	: MTZJ15(B)
D17	: MTZJ3.9(B)
D23,33,34	: MTZJ11(B)
D29	: MTZJ10(B)
Q5,6	: 2SA933AS(Q,R)
Q11,20,28	: DTC113ZSA
Q12	: 2SA1534A(R,S)
Q13	: 2SD2525
Q14	: 2SB1640
Q15,17	: 2SC1740S(Q,R)
Q16,25	: 2SA992(F,E)
Q18,21-24,29,31,32, 201,202,251,252	: 2SC2878(B)
Q19	: 2SC2590(Q,R)
Q26,27	: 2SC1845(F,E)
Q203,204,253,254	: 2SC2631(R,S)

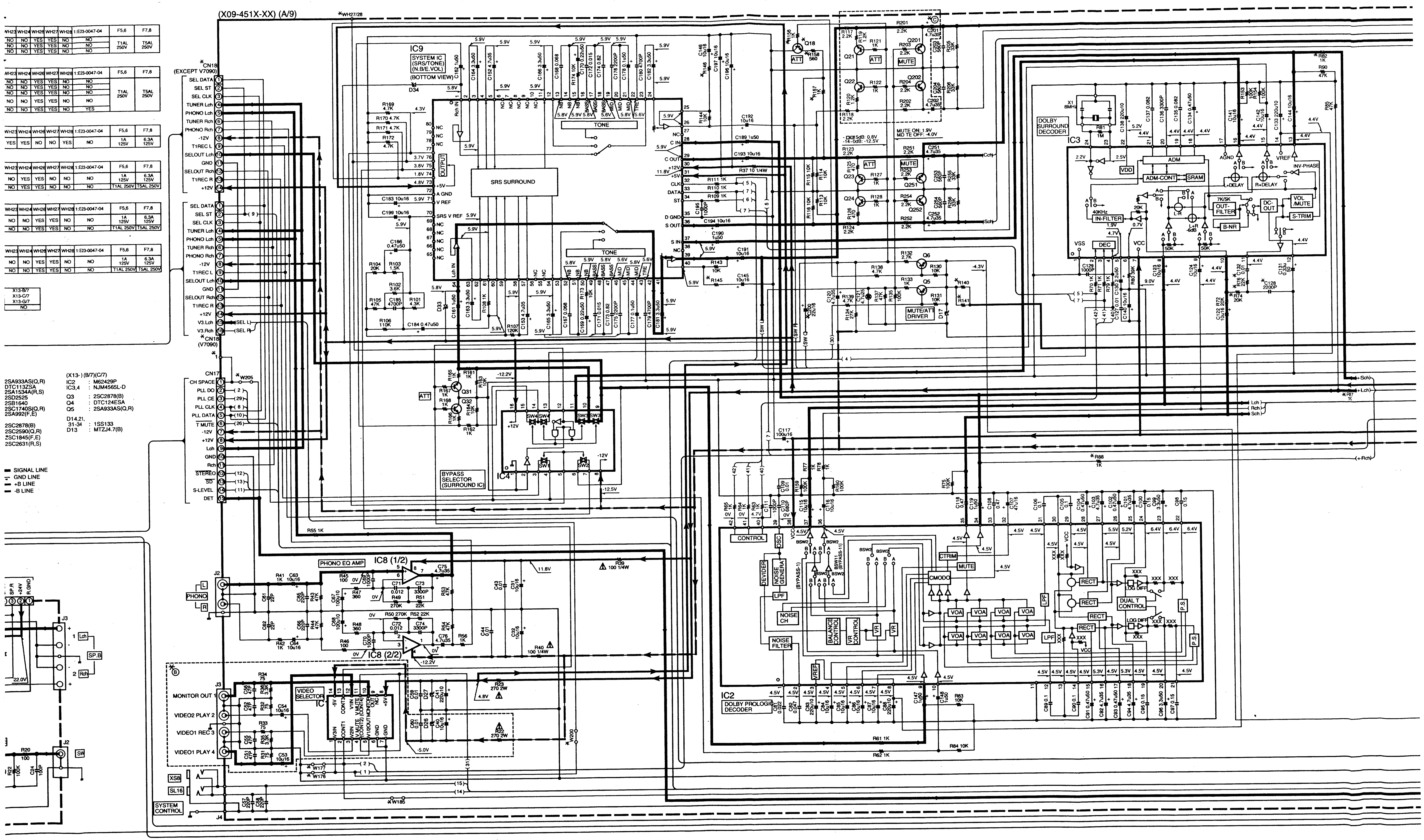
(X13-) (B/7)(C/7

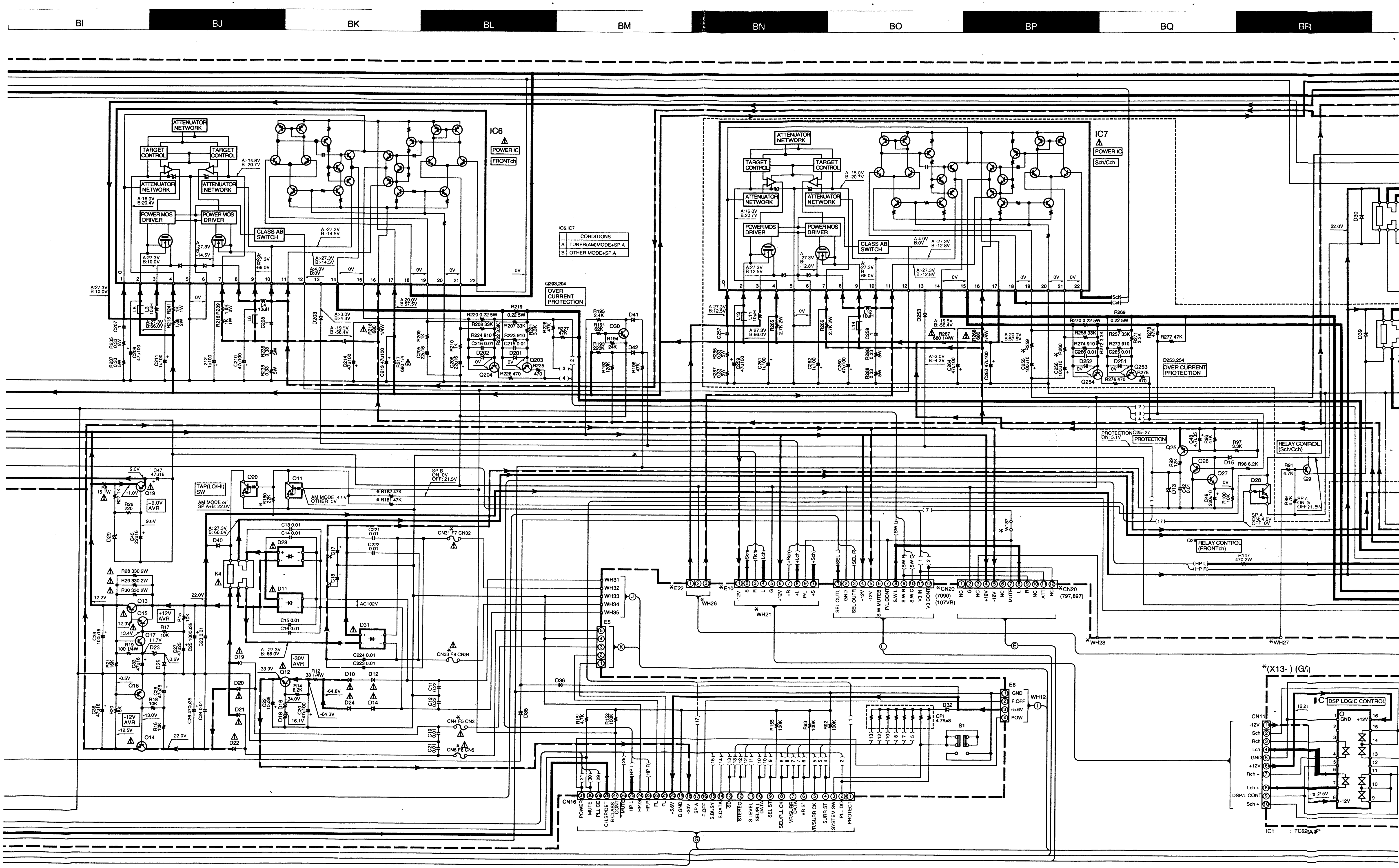
IC2	: M62
IC3,4	: NJM
Q3	: 2SC
Q4	: DTC
Q5	: 2SA
D14,21, 31-34	: 1SS
D13	: MTZ

SIGNAL LINE
GND LINE
+B LINE
-B LINE

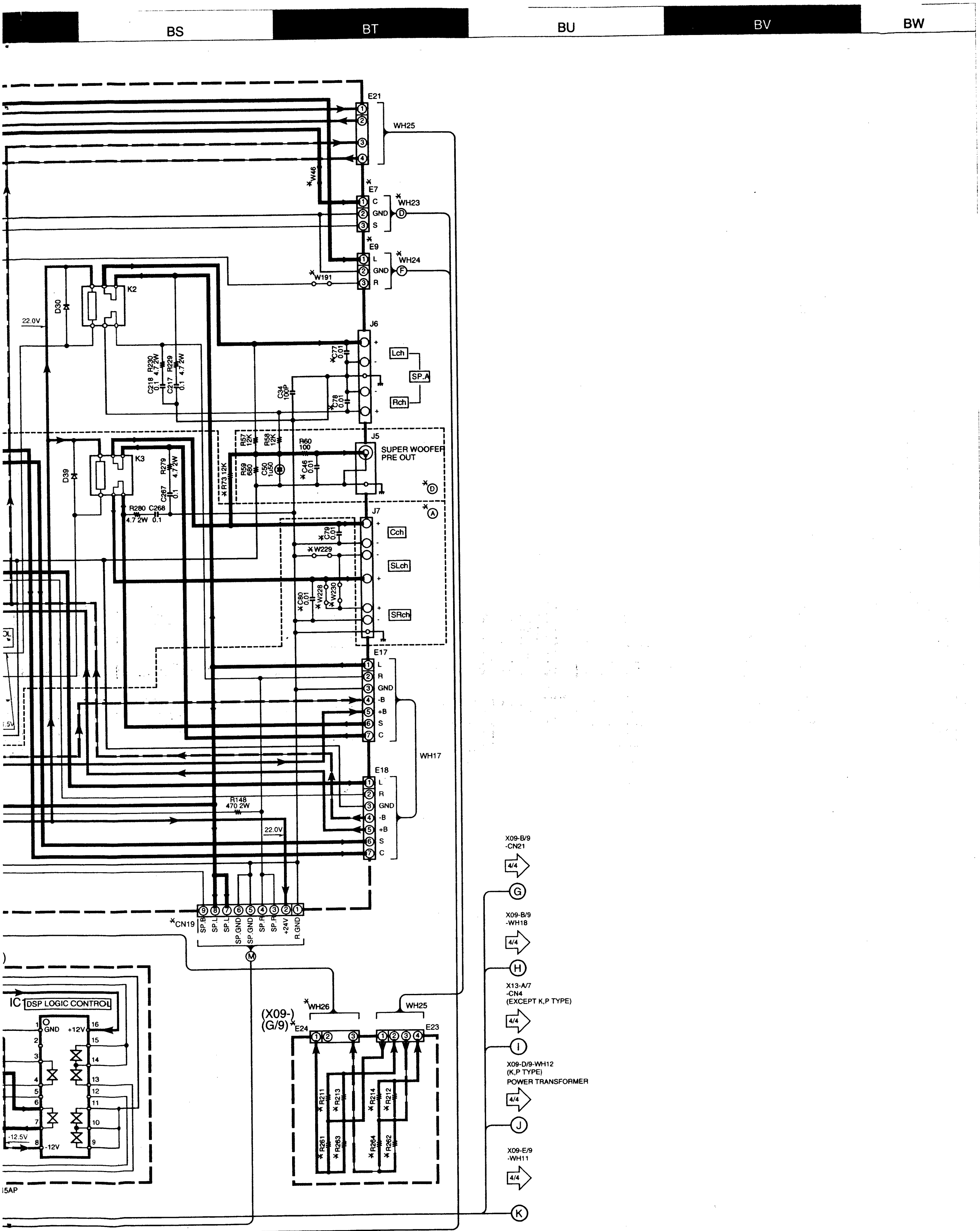


AX AY AZ BA BB BC BD BE BF BG BH





CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

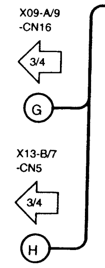


KR-V7090/V6090/897/797/107VR/106VR(M) (3/4)

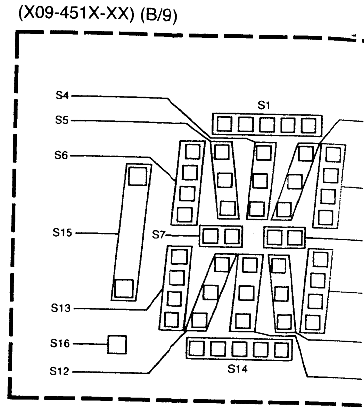
106VR/107VR/KR-797/897/V6090/V7090

KENWOOD

Y05-3280-10



(X09-451X-XX) (B/9)



KR-V7090 (X13-743X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	WH3-9	S1	S2	W14, 15	W16	W19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6,7	X13-D/7	J1
GENERAL MARKET	M	0-21	YES	YES	YES	NO	YES	NO	L07-2128-05	T4AL 250	YES	NO	YES	NO	C91-1488-05	NO	E03-0305-05
SHANGHAI	V	2-11	NO		NO	YES			L07-2129-05	T4A 250	NO		NO				E03-0337-05
AUSTRALIA	X	0-71								T4AL 250							E03-0325-05

KR-V6090 (X13-744X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	WH3-9	S1	S2	W14, 15	W16	W19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6,7	X13-D/7	J1
GENERAL MARKET	M	0-20	YES	YES	YES	NO	YES	NO	L07-2128-05	T4AL 250	YES	NO	YES	NO	C91-1488-05	NO	E03-0305-05
SHANGHAI	V	2-11	NO		NO	YES			L07-2129-05	T4A 250	NO		NO				E03-0337-05
AUSTRALIA	X	0-71															E03-0325-05
U.K.	T	0-51								T3.15AL 250						YES	E03-0191-05
EUROPE RUSSIA	E Q	2-71					NO					YES		YES			E03-0305-05

KR-797 (X13-744X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	WH3-9	S1	S2	W14, 15	W16, 19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6	C7	X13-D/7	J1
GENERAL MARKET	Y	2-92	YES	NO	YES	NO	YES	L07-2128-05	T4AL 250	YES	NO	YES	NO	C91-1488-05	NO	NO	E03-0316-05

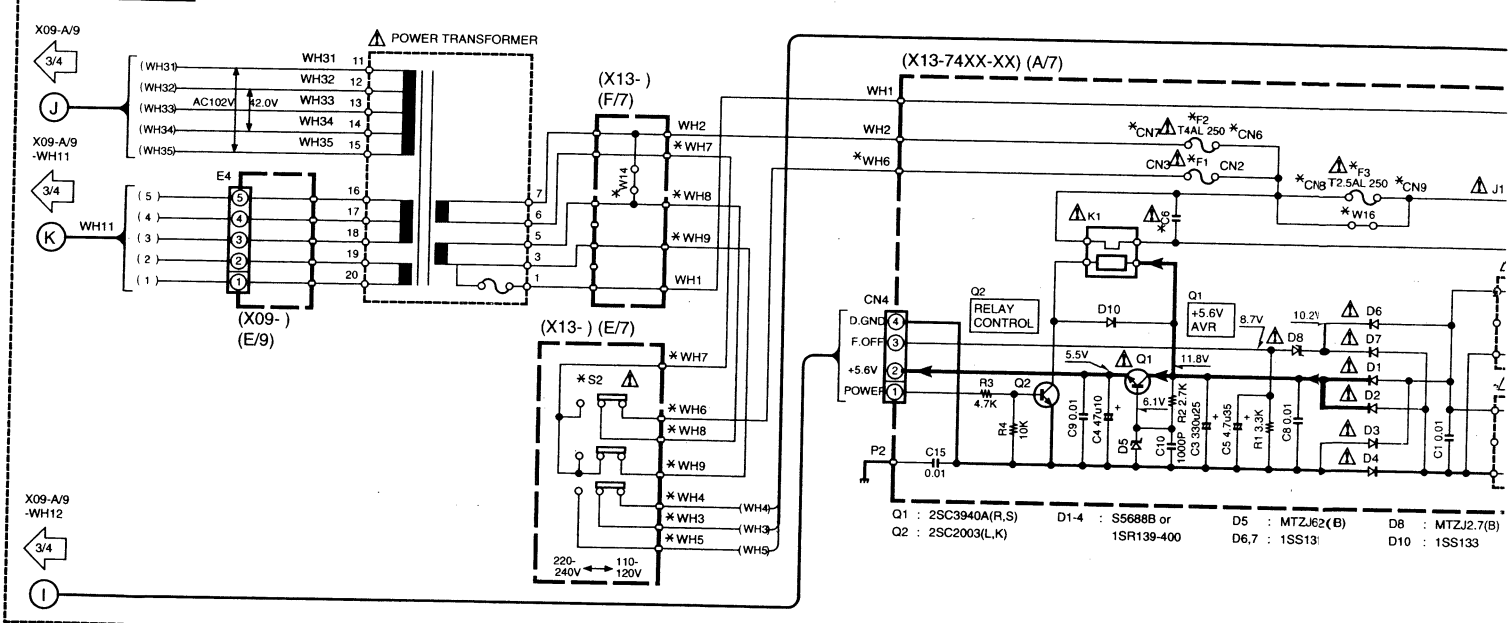
107VR (X13-743X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	WH3-9	S1	S2	W14, 15	W16, 19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6	C7	X13-D/7	J1
GENERAL MARKET	Y	2-91	YES	NO	YES	NO	YES	L07-2128-05	T4AL 250	YES	NO	YES	NO	C91-1488-05	NO	NO	E03-0316-05

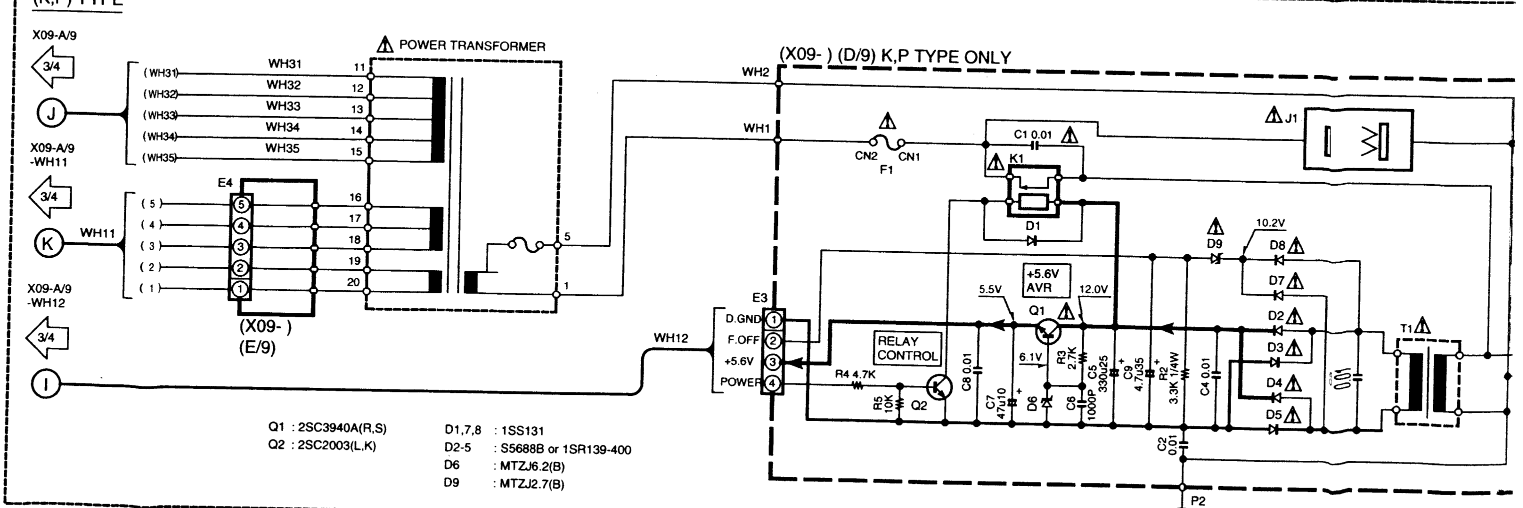
106VR (X13-744X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	WH3-9	S1	S2	W14, 15	W16, 19	T1	F1	F2	F3	CN6,7	CN8,9	C2,6	C7	X13-D/7	J1
GENERAL MARKET	Y	2-91	YES	NO	YES	NO	YES	L07-2128-05	T4AL 250	YES	NO	YES	NO	C91-1488-05	NO	NO	E03-0316-05

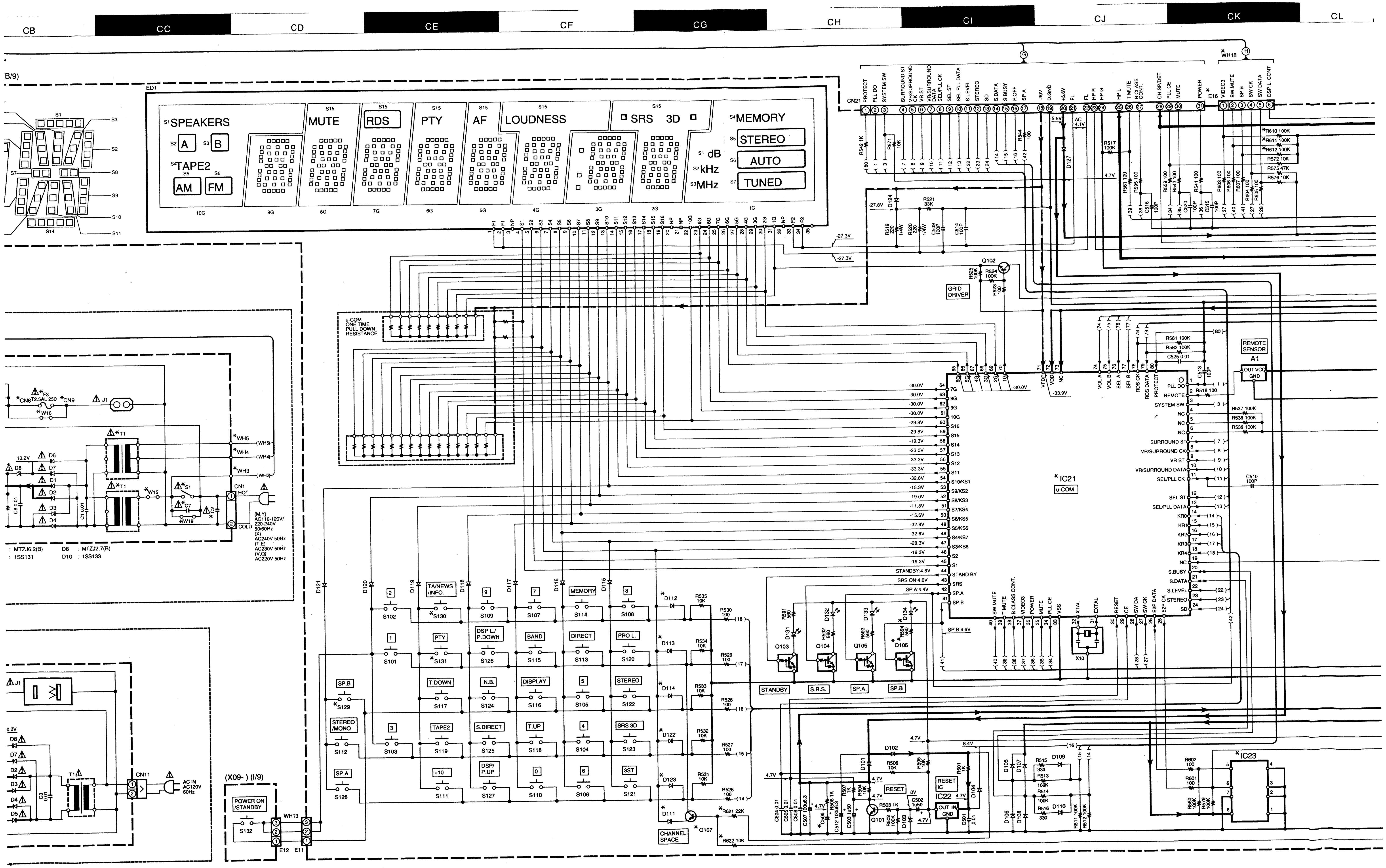
EXCEPT (K,P) TYPE



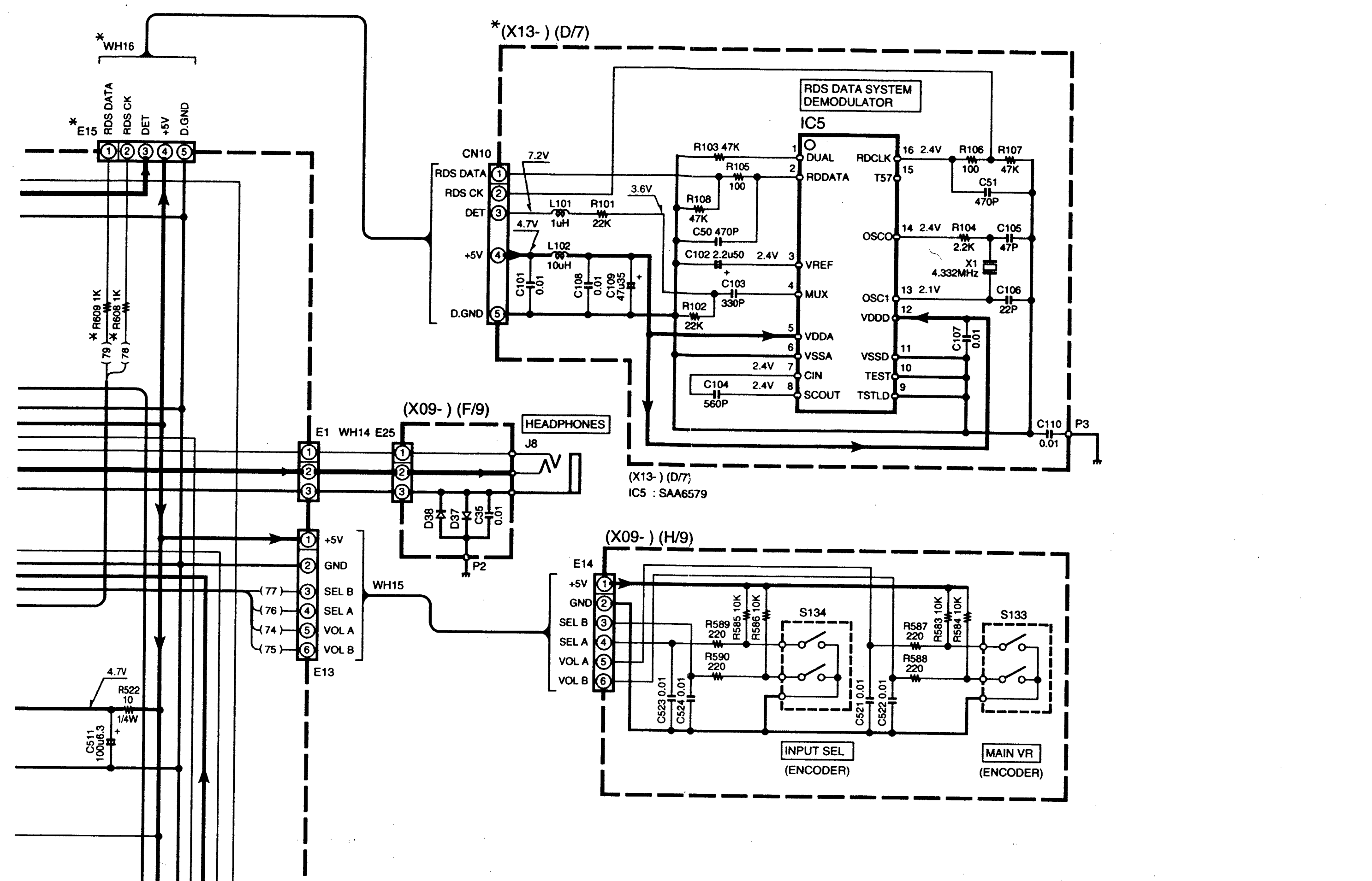
(K,P) TYPE

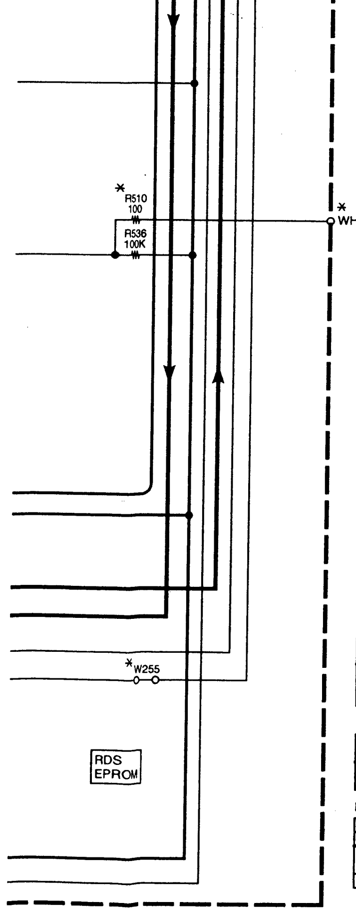


CAUTION: For
components. Fo
measurements s



CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*





(X09-) (B/9) (F/9)

IC21	: *
IC22	: S-806D-Z
IC23	: X24C04P
D37,38,111-123	: 1SS131
D101-110,127	: 1SS133
D124	: MTZJ5.6(B)
D131-134	: B30-2493-05
Q101,102	: 2SC1740S(Q,R)
Q103-106	: DTC143TSA
Q107	: 2SA933AS(Q,R)

SIGNAL LINE
GND LINE
+B LINE
-B LINE

KR-V7090 (X09-451X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	IC21	IC23	Q106	Q107	D111	D112, 123,134	D113	D114, 122	S129	S130, 131	C506	R510,608,609, 610-612	R594	R621, 622	E15, 16	WH16	WH18	WH22	W255
GENERAL MARKET SHANGHAI	M V	0-22	CXP-82532-151Q	NO	YES	YES	YES	YES	NO	NO	YES	NO	0.047F5.5	NO	YES	YES	YES	NO	YES	NO	YES
AUSTRALIA	X	0-72				NO	NO		YES							NO					

KR-V6090 (X09-451X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	IC21	IC23	Q106	Q107	D111	D112, 122	D113	D114	D123, 134	S129	S130, 131	C506	R510	R594	R608, 609	R610-612	R621, 622	E15	E16	WH16	WH18	WH22	W255
GENERAL MARKET SHANGHAI	M V	0-21	CXP-82532-151Q	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	0.047F5.5	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO
AUSTRALIA	X	0-71				NO	NO		YES										NO						
U.K. EUROPE	T E	2-71	CXP-82540-152Q	YES					NO	YES			YES				YES			NO		YES			
RUSSIA	Q	3-81							YES						YES									YES	

107VR (X09-451X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	IC21	IC23	Q106	Q107	D111, 112	D113, 114,122	D123, 134	S129	S130, 131	C506	R510,608,609, 610-612	R594	R621, 622	E15, 16	WH16	WH18	WH22	W255
U.S.A. CANADA	K P	0-11	CXP-82532-151Q	NO	YES	NO	NO	NO	YES	YES	NO	330u6.3	NO	YES	NO	YES	NO	YES	NO	YES
PX	Y	0-22				YES	YES					0.047F5.5			YES					

106VR (X09-451X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	IC21	IC23	Q106	Q107	D111, 112	D113,114, 123,134	D122	S129, 130,131	C506	R510,594, 608,609	R610-612	R621, 622	E15, 16	WH16, 18,22	W255
U.S.A. CANADA	K P	0-10	CXP-82532-151Q	NO	NO	NO	NO	NO	YES	NO	330u6.3	NO	YES	NO	YES	NO	NO
PX	Y	0-21				YES	YES				0.047F5.5			YES			

KR-897 (X09-451X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	IC21	IC23	Q106, Q107	D111-114, 134	D122, 123	S129, 130,131	C506	R510,594,608, 609,621,622	R610-612	E15, 16	WH16, 18,22	W255
U.S.A. CANADA	K P	0-12	CXP-82532-151Q	NO	NO	NO	YES	NO	330u6.3	NO	YES	NO	NO	NO

KR-797 (X09-451X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	IC21	IC23	Q106	Q107	D111, 112	D113, 114,134	D122, D123	S129, 130,131	C506	R510,594, 608,609	R610-612	R621, 622	E15, 16	WH16, 18,22	W255
U.S.A. CANADA	K P	0-12	CXP-82532-151Q	NO	NO	NO	NO	NO	YES	NO	330u6.3	NO	YES	NO	NO	NO	NO
PX	Y	2-91				YES	YES				0.047F5.5			YES			

KR-V7090/6090/897/797,107VR,106VR(M) (4/4)

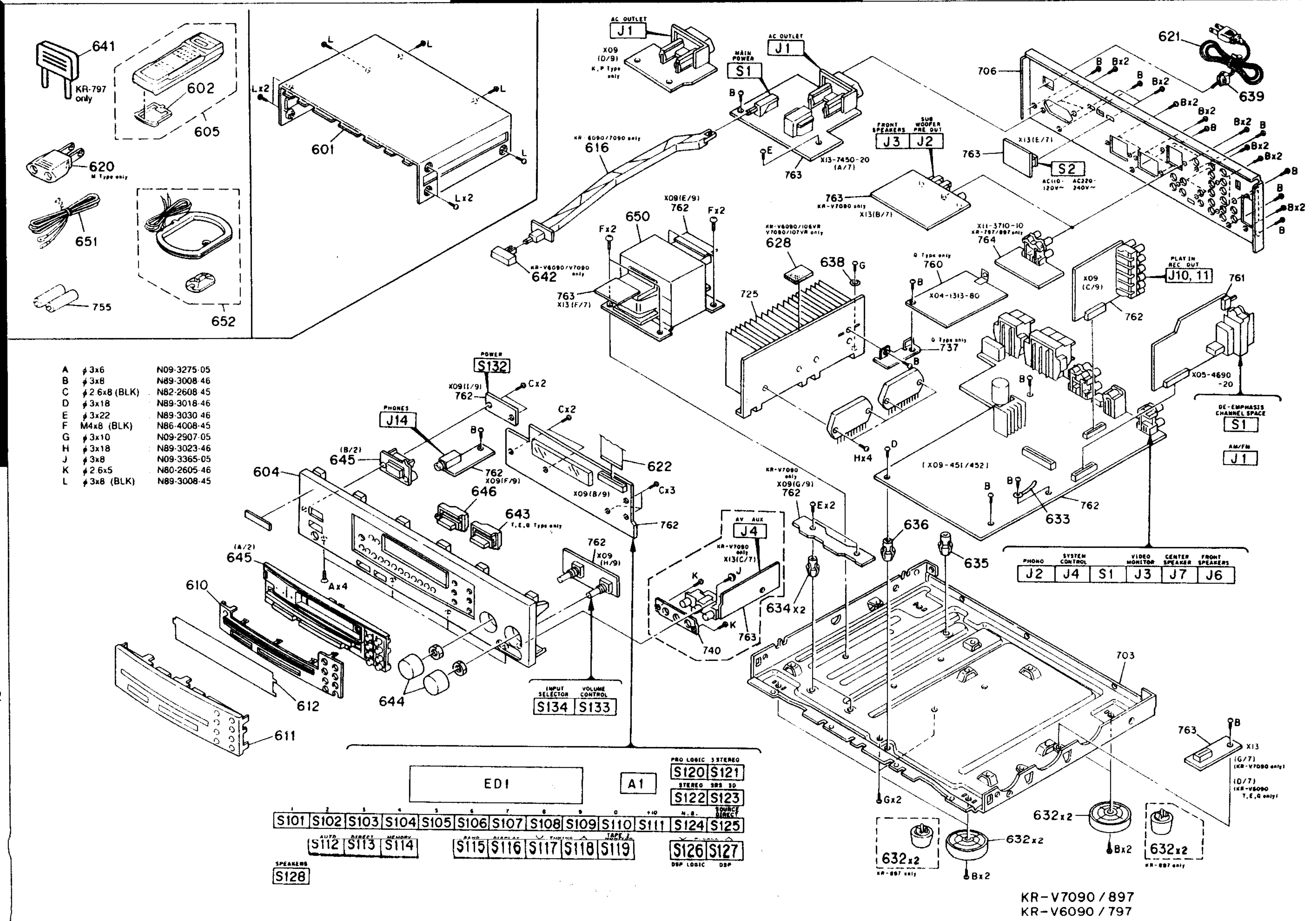
106VR/107VR/KR-797/897/V6090/V7090

Y05-3280-10

KENWOOD

106VR/107VR/KR-797/897/V6090/V7090

EXPLODED VIEW (UNIT)



A	ϕ3x6	N09-3275-05
B	ϕ3x8	N89-3008-46
C	ϕ2.6x8 (BLK)	N82-2608-45
D	ϕ3x18	N89-3018-46
E	ϕ3x22	N89-3030 46
F	M4x8 (BLK)	N86-4008-45
G	ϕ3x10	N09-2907-05
H	ϕ3x18	N89-3023-46
J	ϕ3x8	N09-3365-05
K	ϕ2.6x5	N80-2605-46
L	ϕ3x8 (BLK)	N89-3008-45

Parts with the exploded numbers larger than 700 are not supplied.

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❶

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
				KR-V6090/106VR		
601	1A		A01-3378-01	METALLIC CABINET		
602	1A		A09-0356-08	BATTERY COVER		
604	2A	*	A60-1020-01	PANEL	KPY	
604	2A	*	A60-1021-01	PANEL	MVX	
604	2A	*	A60-1022-01	PANEL	TEQ	
605	1A		A70-1107-05	REMOTE CONTROLLER ASSY		
610	2A		B07-2298-02	ESCUTCHEON		
611	2A		B10-2285-02	FRONT GLASS	KPYMVX	
611	2A		B10-2286-02	FRONT GLASS	TEQ	
612	2A		B11-0339-03	COLOR FILTER		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-			B46-0310-03	WARRANTY CARD	TEQ	
-		*	B46-0329-03	WARRANTY CARD	V	
-		*	B46-0330-03	WARRANTY CARD	KY	
-		*	B46-0336-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD	KY	
-		*	B58-0965-13	CAUTION CARD	XT	
-		*	B58-0966-13	CAUTION CARD	MVE	
-		*	B58-0967-03	CAUTION CARD	P	
-		*	B58-1526-03	CAUTION CARD	Q	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-			B60-2983-00	INSTRUCTION MANUAL (ENGLISH)	KPY	
-			B60-2984-00	INSTRUCTION MANUAL (FRENCH)	P	
-			B60-2985-00	INSTRUCTION MANUAL (FRE/DUT)	E	
-			B60-2986-00	INSTRUCTION MANUAL (ITA/SPA)	E	
-			B60-2987-00	INSTRUCTION MANUAL (GERMAN)	E	
-			B60-2988-00	INSTRUCTION MANUAL (ENGLISH)	T	
-			B60-2989-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B60-2990-00	INSTRUCTION MANUAL (CHINESS)	V	
-			B60-2991-00	INSTRUCTION MANUAL (TAIWAN)	M	
-			B60-2992-00	INSTRUCTION MANUAL (RUSS/POL)	Q	
-			B60-3072-00	INSTRUCTION MANUAL (ENGLISH)	MX	
616	1B		D21-1829-13	EXTENSION SHAFT	MVXTEQ	
⚠ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 621	1C		E30-2605-05	AC POWER CORD	Y	
⚠ 621	1C		E30-2717-05	AC POWER CORD	X	
⚠ 621	1C		E30-2721-05	AC POWER CORD	T	
⚠ 621	1C		E30-2824-05	AC POWER CORD	V	
⚠ 621	1C		E30-2842-05	AC POWER CORD	MEQ	
⚠ 621	1C		E30-2849-05	AC POWER CORD	KP	
622	2B		E35-1679-05	FLAT CABLE		
628	1B		G11-2258-04	CUSHION		
-			H10-7250-02	POLYSTYRENE FOAMED FIXTURE	EQ	
-			H10-7250-02	POLYSTYRENE FOAMED FIXTURE	KPYMVX	
-			H10-7251-02	POLYSTYRENE FOAMED FIXTURE	EQ	
-			H10-7251-02	POLYSTYRENE FOAMED FIXTURE	KPYMVX	
-			H10-7252-02	POLYSTYRENE FOAMED FIXTURE	T	
-			H10-7253-02	POLYSTYRENE FOAMED FIXTURE	T	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-			H11-0070-04	POLYSTYRENE FOAMED BOARD	MVXTEQ	
-			H13-0231-04	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EQ	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMVX	
-			H25-0391-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232)	T	
-		*	H50-2161-04	ITEM CARTON CASE	T	
-		*	H50-2162-04	ITEM CARTON CASE	KPY	
-		*	H50-2271-04	ITEM CARTON CASE	M	
-		*	H50-2272-04	ITEM CARTON CASE	V	
-		*	H50-2307-04	ITEM CARTON CASE	XE	
-		*	H50-2308-04	ITEM CARTON CASE	Q	
632	2C		J02-1148-13	FOOT (D=46,H=14.5)		
633	2C		J19-2808-05	HOLDER		
634	2B	*	J19-5786-04	UNIT HOLDER		
635	2C		J19-5787-04	UNIT HOLDER		
636	2C		J19-5788-04	UNIT HOLDER		
638	1B		J30-0466-04	SPACER	Q	
638	1B		J30-0466-04	SPACER	YMVXTE	
⚠ 639	2C		J42-0083-05	POWER CORD BUSHING		
-			J61-0070-05	WIRE BAND	Q	
-			J61-0070-05	WIRE BAND	YMVXTE	
-			J61-0307-05	WIRE BAND		
642	1B		K27-2185-04	KNOB (BUTTON)	MVXTEQ	
643	2B		K29-6321-04	KNOB	TEQ	
644	2A		K29-6322-04	KNOB		
645	2A		K29-6508-02	KNOB		
646	2B		K29-6509-04	KNOB		
⚠ 650	1B	*	L07-2247-05	POWER TRANSFORMER	KP	
⚠ 650	1B	*	L07-2248-05	POWER TRANSFORMER	YM	
⚠ 650	1B	*	L07-2249-05	POWER TRANSFORMER	X	
⚠ 650	1B	*	L07-2267-05	POWER TRANSFORMER	TE	
⚠ 650	1B	*	L07-2293-05	POWER TRANSFORMER	V	
⚠ 650	1B	*	L07-2296-05	POWER TRANSFORMER	Q	
651	1A		T90-0801-05	LEAD WIRE ANTENNA	KPYMVX	
652	1A		T90-0810-05	LEAD WIRE ANTENNA	TEQ	
652	1A		T90-0820-05	LOOP ANTENNA		
				KR-V7090/107VR		
601	1A		A01-3378-01	METALLIC CABINET		
602	1A		A09-0356-08	BATTERY COVER		
604	2A	*	A60-1017-01	PANEL	KPY	
604	2A	*	A60-1018-01	PANEL	MVX	
605	1A		A70-1107-05	REMOTE CONTROLLER ASSY		
610	2A		B07-2298-02	ESCUTCHEON		
611	2A	*	B10-2284-02	FRONT GLASS		
612	2A		B11-0339-03	COLOR FILTER		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-		*	B46-0329-03	WARRANTY CARD	V	
-		*	B46-0330-03	WARRANTY CARD	KY	
-		*	B46-0336-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD	KY	

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3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-		∗	B58-0965-13	CAUTION CARD	X	
-		∗	B58-0966-13	CAUTION CARD	MV	
-		∗	B58-0967-03	CAUTION CARD	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		∗	B60-2978-00	INSTRUCTION MANUAL (ENGLISH)	KPY	
-		∗	B60-2979-00	INSTRUCTION MANUAL (FRENCH)	P	
-		∗	B60-2980-00	INSTRUCTION MANUAL (SPAINSH)	M	
-		∗	B60-2981-00	INSTRUCTION MANUAL (CHINESE)	V	
-		∗	B60-2982-00	INSTRUCTION MANUAL (TAIWAN)	M	
-		∗	B60-3071-00	INSTRUCTION MANUAL (ENGLISH)	MX	
616	1B		D21-1829-13	EXTENSION SHAFT	MVX	
⚠ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 621	1C		E30-2605-05	AC POWER CORD	Y	
⚠ 621	1C		E30-2717-05	AC POWER CORD	X	
⚠ 621	1C		E30-2824-05	AC POWER CORD	V	
⚠ 621	1C		E30-2842-05	AC POWER CORD	M	
⚠ 621	1C		E30-2849-05	AC POWER CORD	KP	
622	2B	∗	E35-1679-05	FLAT CABLE		
628	1B		G11-2258-04	CUSHION		
-			H10-7250-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-7251-02	POLYSTYRENE FOAMED FIXTURE		
-			H11-0070-04	POLYSTYRENE FOAMED BOARD	MVX	
-			H13-0231-04	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		∗	H50-2160-04	ITEM CARTON CASE	KPY	
-		∗	H50-2269-04	ITEM CARTON CASE	M	
-		∗	H50-2270-04	ITEM CARTON CASE	V	
-		∗	H50-2306-04	ITEM CARTON CASE	X	
632	2C		J02-1148-13	FOOT (D=46,H=14.5)		
633	2C		J19-2808-05	HOLDER		
634	2B	∗	J19-5786-04	UNIT HOLDER		
635	2C		J19-5787-04	UNIT HOLDER		
636	2C		J19-5788-04	UNIT HOLDER		
638	1B		J30-0466-04	SPACER	YMVX	
⚠ 639	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0070-05	WIRE BAND	YMVX	
-			J61-0307-05	WIRE BAND		
642	1B		K27-2185-04	KNOB (BUTTON)	MVX	
643	2B		K29-6321-04	KNOB		
644	2A		K29-6322-04	KNOB		
645	2A		K29-6508-02	KNOB		
⚠ 650	1B	∗	L07-2247-05	POWER TRANSFORMER	KP	
⚠ 650	1B	∗	L07-2248-05	POWER TRANSFORMER	YM	
⚠ 650	1B	∗	L07-2249-05	POWER TRANSFORMER	X	
⚠ 650	1B	∗	L07-2293-05	POWER TRANSFORMER	V	
651	1A		T90-0801-05	LEAD WIRE ANTENNA		
652	1A		T90-0820-05	LOOP ANTENNA		
KR-797/897						
601	1A		A01-3378-01	METALLIC CABINET		
602	1A		A09-0356-08	BATTERY COVER		
604	2A		A60-1087-01	PANEL (KR-897)	KP	

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4

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
604	2A	∗	A60-1088-01	PANEL (KR-797)	KPY	
605	1A		A70-1107-05	REMOTE CONTROLLER ASSY		
610	2A		B07-2298-02	ESCUTCHEON		
611	2A		B10-2285-02	FRONT GLASS		
612	2A		B11-0339-03	COLOR FILTER		
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-		∗	B46-0328-03	WARRANTY CARD	KY	
-			B46-0336-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD	KY	
-		∗	B58-0967-03	CAUTION CARD	P	
-		∗	B58-1540-03	CAUTION CARD	K	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		∗	B60-3069-00	INSTRUCTION MANUAL (ENGLISH)	PY	
-		∗	B60-3070-00	INSTRUCTION MANUAL (FRENCH)	P	
⚠ 621	1C		E30-2605-05	AC POWER CORD	Y	
⚠ 621	1C		E30-2849-05	AC POWER CORD	KP	
622	2B	∗	E35-1679-05	FLAT CABLE		
-			H10-7250-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-7251-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		∗	H50-2189-04	ITEM CARTON CASE	KP	
-		∗	H50-2227-04	ITEM CARTON CASE	KPY	
632	2C		J02-1013-05	FOOT		
633	2C		J19-2808-05	HOLDER		
634	2B	∗	J19-5786-04	UNIT HOLDER		
635	2C		J19-5787-04	UNIT HOLDER		
636	2C		J19-5788-04	UNIT HOLDER		
638	1B		J30-0466-04	SPACER	Y	
⚠ 639	1C		J42-0083-05	POWER CORD BUSHING		
641	1A		J12-0091-15	PIN	KPY	
-			J61-0070-05	WIRE BAND	Y	
-			J61-0307-05	WIRE BAND		
644	2A		K29-6322-04	KNOB		
645	2A		K29-6508-02	KNOB		
646	2B		K29-6509-04	KNOB		
⚠ 650	1B	∗	L07-2247-05	POWER TRANSFORMER	KP	
⚠ 650	1B	∗	L07-2248-05	POWER TRANSFORMER	Y	
651	1A		T90-0801-05	LEAD WIRE ANTENNA		
652	1A		T90-0820-05	LOOP ANTENNA		
POLAR UNIT (X04-1313-81)						
C1			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C2 ,3			C91-1566-05	POLYPROPYLENE FILM CAPACITOR		
C4			CE04LW1A470M	ELECTRO 47UF 10WV		
C5 ,6			CQ93FMG1H102J	MYLAR 1000PF J		
C7			CC45FSL1H331J	CERAMIC 330PF J		
C8			CK45FB1H102K	CERAMIC 1000PF K		
C9			CC93FCH1H471J	CERAMIC 470PF J		
C10 ,11			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C12			CK45FF1H473Z	CERAMIC 0.047UF Z		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C13 -15			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C16			CK45FF1H103Z	CERAMIC 0.010UF Z		
C17 ,18			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C19 ,20			CQ93FMG1H682J	MYLAR 6800PF J		
C21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CE04LW1A470M	ELECTRO 47UF 10WV		
C23 ,24			CQ93FMG1H472J	MYLAR 4700PF J		
C25			CC45FSL1H121J	CERAMIC 120PF J		
C26			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
TC1			C05-0463-05	CERAMIC TRIMMER CAPACITOR(120P		
CN2 ,3			E40-4871-05	PIN ASSY		
CN4			E40-4372-05	PIN ASSY		
CN5			E40-3259-05	PIN ASSY		
CN6			E40-4872-05	PIN ASSY		
-			H12-2330-04	PACKING FIXTURE		
-			H13-0262-04	CARTON BOARD		
-			H21-0343-04	PROTECTION SHEET		
-			H25-1609-04	PROTECTION BAG		
-			H50-2411-04	ITEM CARTON CASE		
L1			L39-1350-05	PEAKING COIL		
L2 ,3			L79-1236-05	LC FILTER		
L4			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
R9			RS14KB3A221J	FL-PROOF RS 220 J 1W		
VR1			R12-3685-05	TRIMMING POT.(10K)		
VR2			R12-1619-05	TRIMMING POT.(4.7K)		
D1			MTZJ5.1(B)	ZENER DIODE		
D1			UZ-5.1BSB	ZENER DIODE		
D2 ,3			HSS104	DIODE		
D2 ,3			1SS133	DIODE		
D4			MTZJ5.1(B)	ZENER DIODE		
D4			UZ-5.1BSB	ZENER DIODE		
D5			MTZJ3.3(B)	ZENER DIODE		
D5			UZ-3.3BSB	ZENER DIODE		
D6 ,7			HSS104	DIODE		
D6 ,7			1SS133	DIODE		
IC1			IR3R42	ANALOGUE IC		
IC2			NJM4565D	ANALOGUE IC		
IC3			TC4052BP	IC(4CH MPX/DE-MPX)		
Q1			2SA1175(F,E)	TRANSISTOR		
Q1			2SA933AS(Q,R)	TRANSISTOR		
Q2 ,3			2SC2878(B)	TRANSISTOR		
Q4			2SA1175(F,E)	TRANSISTOR		
Q4			2SA933AS(Q,R)	TRANSISTOR		
Q5			DTC124ESA	DIGITAL TRANSISTOR		
Q5			UN4212	DIGITAL TRANSISTOR		

TUNER UNIT (X05-4690-20 : YMXV TYPE ONLY)

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C1 ,2			CK73FB1H103K	CHIP C 0.010UF K		
C3			CC73FCH1H040C	CHIP C 4.0PF C		
C4			CK73FB1H103K	CHIP C 0.010UF K		
C7			CK73FB1H102K	CHIP C 1000PF K		
C8			CK73FB1H473K	CHIP C 0.047UF K		
C9			CE04LW1C100M	ELECTRO 10UF 16WV		
C10			CK73FB1H473K	CHIP C 0.047UF K		
C11			CE04LW1H010M	ELECTRO 1.0UF 50WV		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C12			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C13			CK73FB1H102K	CHIP C 1000PF K		
C14			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C15			CC73FCH1H220J	CHIP C 22PF J		
C16			CE04LW1C100M	ELECTRO 10UF 16WV		
C17			CK73FB1H562K	CHIP C 5600PF K		
C18			CK73FB1H102K	CHIP C 1000PF K		
C19			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
C20			CK73FB1E104K	CHIP C 0.10UF K		
C21 ,22			CQ92FM1H113J	MYLAR 0.011UF J		
C23			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C24			CK73EB1H103K	CHIP C 0.010UF K		
C25			CE04LW1C100M	ELECTRO 10UF 16WV		
C26			CE04LW1C470M	ELECTRO 47UF 16WV		
C27			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C28			CQ92FM1H223J	MYLAR 0.022UF J		
C29			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C30			CE04LW1C101M	ELECTRO 100UF 16WV		
C31			CE04LW1C100M	ELECTRO 10UF 16WV		
C32			CK73FB1H103K	CHIP C 0.010UF K		
C33			CC73FSL1H101J	CHIP C 100PF J		
C34 ,35			CK73FB1H102K	CHIP C 1000PF K		
C36			CC73FCH1H270J	CHIP C 27PF J		
C37			CC73FCH1H220J	CHIP C 22PF J		
C38			CK73FB1H471K	CHIP C 470PF K		
C52			CC73FCH1H470J	CHIP C 47PF J		
C57 -60			CE04LW1C100M	ELECTRO 10UF 16WV		
C61 ,62			CQ92FM1H472J	MYLAR 4700PF J	YMV	
C63			CC73FCH1H220J	CHIP C 22PF J		
CN1			E40-9831-05	SOCKET FOR PIN ASSY		
J1			E70-0079-05	LOCK TERMINAL BOARD		
J2		∗	F10-1074-04	SHIELDING PLATE		
CF1 ,2			L72-0531-05	CERAMIC FILTER		
CF3			L72-0593-05	CERAMIC FILTER		
L1			L39-1348-05	COMBINATION COIL		
L2			L30-0911-05	AM IFT		
L3			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X1			L77-2187-05	CRYSTAL RESONATOR(7.2MHZ)		
X2			L78-0295-05	RESONATOR (456KHZ)		
R1			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R2			RK73FB2A681J	CHIP R 680 J 1/10W		
R3			RK73FB2A100J	CHIP R 10 J 1/10W		
R4 ,5			RK73FB2A331J	CHIP R 330 J 1/10W		
R6			RK73FB2A101J	CHIP R 100 J 1/10W		
R7			RK73FB2A683J	CHIP R 68K J 1/10W		
R8			RK73FB2A331J	CHIP R 330 J 1/10W		
R13			RK73FB2A333J	CHIP R 33K J 1/10W		
R15 ,16			RK73FB2A393J	CHIP R 39K J 1/10W		
R17			RK73FB2A271J	CHIP R 270 J 1/10W		
R18			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R19			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R21 -23			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R24			RK73FB2A562J	CHIP R 5.6K J 1/10W		

L : Scandinavia K : USA P : Canada R : Mexico
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7

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ R25			RD14NB2E101J	RD 100 J 1/4W		
R26			RD14NB2E561J	RD 560 J 1/4W		
⚠ R27 ,28			RK73FB2A103J	CHIP R 10K J 1/10W		
R29 ,30			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R31			RK73FB2A103J	CHIP R 10K J 1/10W		
R32			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R33			RK73FB2A123J	CHIP R 12K J 1/10W		
⚠ R41			RS14KB3A181J	FL-PROOF RS 180 J 1W		
⚠ R42			RD14NB2E820J	RD 82 J 1/4W		
R43			RD14NB2E221J	RD 220 J 1/4W		
R44			RK73FB2A101J	CHIP R 100 J 1/10W		
R46			RK73FB2A104J	CHIP R 100K J 1/10W		
R47			RK73FB2A153J	CHIP R 15K J 1/10W		
R48			RK73FB2A473J	CHIP R 47K J 1/10W		
R49			RK73FB2A473J	CHIP R 47K J 1/10W	YMV	
R50			RK73FB2A471J	CHIP R 470 J 1/10W	YMV	
R51 -54			RK73FB2A473J	CHIP R 47K J 1/10W		
R55 ,56			RK73FB2A154J	CHIP R 150K J 1/10W		
R59 ,60			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R61			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R62			RK73FB2A473J	CHIP R 47K J 1/10W		
R63			RK73FB2A821J	CHIP R 820 J 1/10W		
R64			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R65			RK73EB2B102J	CHIP R 1.0K J 1/8W		
W101-106			R92-0670-05	CHIP R 0 OHM		
W108-114			R92-0670-05	CHIP R 0 OHM		
W115			R92-0670-05	CHIP R 0 OHM	YMV	
W116			R92-0670-05	CHIP R 0 OHM		
W201			R92-0679-05	CHIP R 0 OHM		
W202			R92-0670-05	CHIP R 0 OHM		
W203-208			R92-0679-05	CHIP R 0 OHM		
W210,211			R92-0679-05	CHIP R 0 OHM		
S1			S62-0034-05	SLIDE SWITCH	YMV	
D1 ,2			1SS133	DIODE		
D3 ,4			MTZJ5.1(B)	ZENER DIODE		
D8			1SS133	DIODE		
D12			MTZJ3.3(B)	ZENER DIODE		
IC1			LA1832	ANALOGUE IC		
IC2			LC72131	MOS-IC		
IC4			NJM4565M	IC(OP AMP X2)		
Q1			2SC2714(R,O)	TRANSISTOR		
Q3			2SA1576A(R,S)	TRANSISTOR		
Q5			2SC4081(R,S)	TRANSISTOR		
Q6			2SA1576A(R,S)	TRANSISTOR		
Q7 ,8			2SD1328	TRANSISTOR		
Q9 ,10			2SC4081(R,S)	TRANSISTOR	YMV	
A1			W02-2539-05	FM FRONT-END ASSY		
TUNER UNIT (X05-4700-10 : KPTEQ TYPE ONLY)						
C1			CE04LW1C470M	ELECTRO 47UF 16WV		
C2			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C3 -6			CK73FB1H103K	CHIP C 0.010UF K		
C7 ,8			CK73FB1H103K	CHIP C 0.010UF K	TEQ	
C9			C91-0789-05	CERAMIC 0.010UF K	TEQ	

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8

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C29			CK73EB1E104K	CHIP C 0.10UF K	KP	
C30			CK73EB1E473K	CHIP C 0.047UF K		
C31			CE04LW1C470M	ELECTRO 47UF 16WV		
C32			CK73FB1H103K	CHIP C 0.010UF K		
C33			CE04LW1C100M	ELECTRO 10UF 16WV		
C34			CK73EB1E104K	CHIP C 0.10UF K		
C35			CE04LW1C100M	ELECTRO 10UF 16WV		
C36			CK73FB1E473K	CHIP C 0.047UF K		
C37			CK73EF1E105Z	CHIP C 1.0UF Z		
C38			C90-3217-05	ELECTRO 10UF 10WV		
C39			CK73FB1H102K	CHIP C 1000PF K	KPQ	
C40			C90-3253-05	ELECTRO 1.0UF 50WV		
C41			C90-3251-05	ELECTRO 0.47UF 50WV		
C42			C90-3240-05	ELECTRO 2.2UF 35WV		
C43			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C44			CK73FB1E473K	CHIP C 0.047UF K		
C45			CC73FCH1H220J	CHIP C 22PF J		
C46			CE04LW1A101M	ELECTRO 100UF 10WV		
C47			CK73FB1H562K	CHIP C 5600PF K	KP	
C47			CK73FB1H682K	CHIP C 6800PF K	TEQ	
C48			CC73FSL1H101J	CHIP C 100PF J	Q	
C48			CK73FB1H102K	CHIP C 1000PF K	TE	
C48			CK73FB1H122K	CHIP C 1200PF K	KP	
C49			C90-3253-05	ELECTRO 1.0UF 50WV		
C50			CK73FB1H102K	CHIP C 1000PF K	TEQ	
C51 ,52			C90-3217-05	ELECTRO 10UF 10WV		
C53 ,54			CK73FB1H223K	CHIP C 0.022UF K	TEQ	
C53 ,54			CK73FB1H333K	CHIP C 0.033UF K	KP	
C55 ,56			C90-3240-05	ELECTRO 2.2UF 35WV		
C57 ,58			CK73FB1H822K	CHIP C 8200PF K	TE	
C59			CK73FB1H103K	CHIP C 0.010UF K	KPQ	
C60			CK73FB1E104K	CHIP C 0.10UF K	TEQ	
C61			CK73FB1H103K	CHIP C 0.010UF K		
C64			CK73FB1H333K	CHIP C 0.033UF K		
C66			CC73FCH1H060D	CHIP C 6.0PF D	TEQ	
C67			CC73FCH1H220J	CHIP C 22PF J	TEQ	
C68			CC73FSL1H020C	CHIP C 2.0PF C	TEQ	
C69			CK73FB1H103K	CHIP C 0.010UF K		
C70			CC73FSL1H101J	CHIP C 100PF J		
C81			CC73FCH1H220J	CHIP C 22PF J		
C82			CC73FCH1H270J	CHIP C 27PF J		
C84			CK73FB1H102K	CHIP C 1000PF K		
C85			C91-0745-05	CERAMIC 100PF K		
C86			C91-0757-05	CERAMIC 1000PF K		
C87			CE04LW1C100M	ELECTRO 10UF 16WV		
C89			CE04LW1C470M	ELECTRO 47UF 16WV		
C90			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C91			CQ92FM1H223J	MYLAR 0.022UF J		
C92			CC73FSL1H471J	CHIP C 470PF J		
C93			CK73FB1H103K	CHIP C 0.010UF K		
C94			CK73FB1H102K	CHIP C 1000PF K		
C95			CC73FCH1H470J	CHIP C 47PF J		
C96			CC73FSL1H101J	CHIP C 100PF J		
C97			CK73FB1H102K	CHIP C 1000PF K	KP	
C98			CC73FSL1H101J	CHIP C 100PF J	KP	

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9

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C99 ,100			CC73FSL1H471J	CHIP C 470PF J	KPQ	
C102			CC73FSL1H181J	CHIP C 180PF J	KP	
C102			CK73FB1H102K	CHIP C 1000PF K	Q	
C103			CC73FSL1H101J	CHIP C 100PF J	KP	
CN1			E40-9831-05	SOCKET FOR PIN ASSY	KPTE	
CN2			E40-4871-05	PIN ASSY		
J1			E70-0079-05	LOCK TERMINAL BOARD	KP	
J1			E70-0080-05	LOCK TERMINAL BOARD	TEQ	
WH1			E35-1808-05	WIRING HARNESS	Q	
J2		*	F10-1074-04	SHIELDING PLATE	KP	
J2			F10-1075-04	SHIELDING PLATE	TEQ	
CF1 ,2			L72-0536-05	CERAMIC FILTER	TEQ	
CF1 ,2			L72-0596-05	CERAMIC FILTER	KP	
L31			L30-0910-05	FM IFT	KP	
L31			L30-0929-05	FM IFT	TEQ	
L32			L30-0930-05	FM IFT	TEQ	
L33			L30-0911-05	AM IFT		
L34			L79-1240-05	LC FILTER	TEQ	
L35 ,36			L79-1239-05	LC FILTER	TE	
L61			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L62			L39-1351-05	COMBINATION COIL		
L63			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
TEQ						
X31			L78-0295-05	RESONATOR (456KHZ)		
X81			L77-2187-05	CRYSTAL RESONATOR(7.2MHZ)		
⚠ R1			RD14NB2E101J	RD 100 J 1/4W		
R2			RK73EB2B221J	CHIP R 220 J 1/8W		
R3			RK73FB2A331J	CHIP R 330 J 1/10W	KP	
R3			RK73FB2A332J	CHIP R 3.3K J 1/10W	TEQ	
R4			RK73FB2A681J	CHIP R 680 J 1/10W		
R5			RK73FB2A331J	CHIP R 330 J 1/10W		
R6			RK73FB2A100J	CHIP R 10 J 1/10W	KP	
R6			RK73FB2A220J	CHIP R 22 J 1/10W	TEQ	
R7			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R8			RK73FB2A331J	CHIP R 330 J 1/10W		
R10			RK73FB2A332J	CHIP R 3.3K J 1/10W	TEQ	
R11			RK73FB2A681J	CHIP R 680 J 1/10W	TEQ	
R12			RK73FB2A122J	CHIP R 1.2K J 1/10W	TEQ	
R13 ,14			RK73FB2A331J	CHIP R 330 J 1/10W	TEQ	
R15			RK73FB2A101J	CHIP R 100 J 1/10W	TEQ	
R16			RK73FB2A220J	CHIP R 22 J 1/10W	TEQ	
R17			RK73FB2A621J	CHIP R 620 J 1/10W	TEQ	
R18			RK73FB2A123J	CHIP R 12K J 1/10W	TEQ	
R19			RK73FB2A4R7J	CHIP R 4.7 J 1/10W	TEQ	
R20			RK73FB2A122J	CHIP R 1.2K J 1/10W	TEQ	
R22			RK73FB2A101J	CHIP R 100 J 1/10W	KP	
R30			RK73FB2A681J	CHIP R 680 J 1/10W		
R31			RS14KB3A820J	FL-PROOF RS 82 J 1W		
R32			RK73EB2B562J	CHIP R 5.6K J 1/8W		
R33			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R34			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R35			RK73FB2A392J	CHIP R 3.9K J 1/10W	KP	
R35 ,36			RK73FB2A333J	CHIP R 33K J 1/10W	TEQ	
R36			RK73FB2A243J	CHIP R 24K J 1/10W	KP	
R37			RK73FB2A302J	CHIP R 3.0K J 1/10W	TEQ	

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10

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
R37			RK73FB2A362J	CHIP R 3.6K J 1/10W	KP	
R38			RK73FB2A333J	CHIP R 33K J 1/10W		
R39			RK73FB2A223J	CHIP R 22K J 1/10W	KP	
R39			RK73FB2A473J	CHIP R 47K J 1/10W	TEQ	
R40			RK73FB2A332J	CHIP R 3.3K J 1/10W	TEQ	
R41			RK73FB2A222J	CHIP R 2.2K J 1/10W	TEQ	
R42			RK73FB2A473J	CHIP R 47K J 1/10W	TEQ	
R43 ,44			RK73FB2A222J	CHIP R 2.2K J 1/10W	TEQ	
R43 ,44			RK73FB2A392J	CHIP R 3.9K J 1/10W	KP	
R45 ,46			RK73FB2A122J	CHIP R 1.2K J 1/10W	TE	
R45 ,46			RK73FB2A332J	CHIP R 3.3K J 1/10W	KP	
R47 ,48			RK73FB2A392J	CHIP R 3.9K J 1/10W	TE	
R47 ,48			RK73FB2A393J	CHIP R 39K J 1/10W	KP	
R49			RK73FB2A473J	CHIP R 47K J 1/10W		
R51			RK73FB2A102J	CHIP R 1.0K J 1/10W	TEQ	
R52			RK73FB2A104J	CHIP R 100K J 1/10W	TEQ	
R53			RK73FB2A102J	CHIP R 1.0K J 1/10W	TEQ	
R54			RK73FB2A683J	CHIP R 68K J 1/10W	TEQ	
R55			RK73FB2A473J	CHIP R 47K J 1/10W	TEQ	
R56			RK73FB2A104J	CHIP R 100K J 1/10W	TEQ	
R59			RK73FB2A222J	CHIP R 2.2K J 1/10W	TEQ	
R67			RK73FB2A104J	CHIP R 100K J 1/10W		
R80			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R81 -83			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R84			RK73FB2A103J	CHIP R 10K J 1/10W		
R85 -87			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R88			RK73FB2A102J	CHIP R 1.0K J 1/10W	TEQ	
R88			RK73FB2A103J	CHIP R 10K J 1/10W	KP	
⚠ R89			RD14NB2E101J	RD 100 J 1/4W		
R90			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R91			RK73FB2A102J	CHIP R 1.0K J 1/10W	KP	
R91			RK73FB2A222J	CHIP R 2.2K J 1/10W	TEQ	
R92			RK73FB2A123J	CHIP R 12K J 1/10W		
R93			RK73FB2A122J	CHIP R 1.2K J 1/10W		
⚠ R94			RD14NB2E561J	RD 560 J 1/4W	KPTE	
R101,102			RK73FB2A102J	CHIP R 1.0K J 1/10W	KPTE	
R103			RK73FB2A821J	CHIP R 820 J 1/10W	KPTE	
R104			RK73FB2A473J	CHIP R 47K J 1/10W	KPTE	
R105			RK73FB2A822J	CHIP R 8.2K J 1/10W	KPTE	
W51 -55			R92-0670-05	CHIP R 0 OHM		
W56 -58			R92-0679-05	CHIP R 0 OHM		
W59			R92-0670-05	CHIP R 0 OHM		
W60			R92-0679-05	CHIP R 0 OHM		
W61			R92-0670-05	CHIP R 0 OHM	TEQ	
W62 -65			R92-0679-05	CHIP R 0 OHM		
W66			R92-0670-05	CHIP R 0 OHM	TEQ	
W67			R92-0679-05	CHIP R 0 OHM		
W68			R92-0670-05	CHIP R 0 OHM	KP	
W69 -71			R92-0679-05	CHIP R 0 OHM		
W73			R92-0670-05	CHIP R 0 OHM	KP	
W73 ,74			R92-0670-05	CHIP R 0 OHM	TEQ	
W76 ,77			R92-0670-05	CHIP R 0 OHM	KP	
W80			R92-0670-05	CHIP R 0 OHM		
W81			R92-0679-05	CHIP R 0 OHM		
W82			R92-0670-05	CHIP R 0 OHM	KP	

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⑪

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
W83 -85			R92-0679-05	CHIP R 0 OHM		
D1			1SS133	DIODE	TEQ	
D31			MTZJ8.2(B)	ZENER DIODE		
D32			MA111	DIODE		
D33			1SS133	DIODE	TEQ	
D61 ,62			1SS133	DIODE		
D81			MTZJ5.1(B)	ZENER DIODE		
D101			MTZJ3.3(B)	ZENER DIODE		
IC1			LA1836	ANALOGUE IC		
IC2			LC72131	MOS-IC		
IC3			NJM2904M	IC(OP AMP X2)	TEQ	
Q1			2SC2714(R,O)	TRANSISTOR		
Q2			2SC2714(R,O)	TRANSISTOR	TEQ	
Q3			2SA1576A(R,S)	TRANSISTOR	TEQ	
Q31			2SC4081(R,S)	TRANSISTOR	TEQ	
Q32			2SC4081(R,S)	TRANSISTOR		
Q81			2SA1576A(R,S)	TRANSISTOR		
Q101,102			2SD1328	TRANSISTOR	KPTE	
Q103			2SA1576A(R,S)	TRANSISTOR	KPTE	
A1			W02-2539-05	FM FRONT-END ASSY	KP	
A1			W02-2565-05	FM FRONT-END ASSY	TE	
A1			W02-2579-05	FM FRONT-END ASSY	Q	
AUDIO UNIT (X09-4510-12)						
D131-133		∗	B30-2493-05	LED(RED)		
C1		∗	C91-1563-05	METALIZED FILM CAPACITOR	KP	
C2 -4			CK45FF1H103Z	CERAMIC 0.010UF Z	KP	
C5			CE04EW1E331M	ELECTRO 330UF 25WV	KP	
C6			CK45FB1H102K	CERAMIC 1000PF K	KP	
C7			CE04LW1A470M	ELECTRO 47UF 10WV	KP	
C8			CK45FF1H103Z	CERAMIC 0.010UF Z	KP	
C9			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	KP	
C11 ,12		∗	C91-1564-05	MF-C 0.22UF J		
C13 -16			CK45FE2H103P	CERAMIC 0.010UF P		
C17 ,18		∗	C90-3729-05	ELECTRO 4700UF 80WV	KPYMXV	
C17 ,18		∗	C90-3733-05	ELECTRO 4700UF 71WV	TEQ	
C19			CK45FF1H103Z	CERAMIC 0.010UF Z		
C20			CE04LW2A470M	ELECTRO 47UF 100WV		
C21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CE04LW1V100M	ELECTRO 10UF 35WV		
C23 ,24			CK45FF1H103Z	CERAMIC 0.010UF Z		
C25			CE04LW1V102M	ELECTRO 1000UF 35WV		
C26			CE04LW1V471M	ELECTRO 470UF 35WV		
C27 ,28			CE04LW1E470M	ELECTRO 47UF 25WV		
C31 ,32			CE04LW1C100M	ELECTRO 10UF 16WV		
C33			CE04LW1C470M	ELECTRO 47UF 16WV		
C34			CC45FSL1H101J	CERAMIC 100PF J		
C35			CK45FF1H103Z	CERAMIC 0.010UF Z		
C36			CE04LW1C470M	ELECTRO 47UF 16WV		
C39			CE04LW1C101M	ELECTRO 100UF 16WV		
C40			CE04LW1C100M	ELECTRO 10UF 16WV	2345	
C41			CE04LW1A221M	ELECTRO 220UF 10WV		
C42 -44			CK45FF1H103Z	CERAMIC 0.010UF Z		
C45			CE04LW1C220M	ELECTRO 22UF 16WV		

L : Scandinavia K : USA P : Canada R : Mexico 1 : KR-797 2 : KR-897
V : PX(Far East, Hawaii) T : Europe E : Europe G : Germany 3 : KR-V6090 4 : 106VR
Y : AAFES(Europe) X : Australia M : Other Areas 5 : KR-V7090 6 : 107VR
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⑫

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C46			CK45FF1H103Z	CERAMIC 0.010UF Z	1234	
C47			CE04LW1C470M	ELECTRO 47UF 16WV		
C48			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C49			CE04LW1A221M	ELECTRO 220UF 10WV		
C50			CE04HW1H010M	NP-ELEC 1.0UF 50WV	1234	
C51 ,52			CC45FSL1H470J	CERAMIC 47PF J	3456	
C53 ,54			CE04LW1C100M	ELECTRO 10UF 16WV	3456	
C55 ,56			CC45FSL1H470J	CERAMIC 47PF J	3456	
C57 ,58			CC45FSL1H221J	CERAMIC 220PF J		
C59			CK45FF1H103Z	CERAMIC 0.010UF Z		
C60			CK45FF1H103Z	CERAMIC 0.010UF Z	3456	
C61 ,62			CC45FSL1H220J	CERAMIC 22PF J		
C63 ,64			CE04LW1C100M	ELECTRO 10UF 16WV		
C65 ,66			CC45FSL1H221J	CERAMIC 220PF J		
C67 ,68			CE04LW1A101M	ELECTRO 100UF 10WV		
C69 ,70			CK45FB1H102K	CERAMIC 1000PF K		
C71 ,72			CQ92FM1H123J	MYLAR 0.012UF J		
C73 ,74			CQ92FM1H332J	MYLAR 3300PF J		
C75 ,76			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C77 -80			CK45FF1H103Z	CERAMIC 0.010UF Z	TEQ	
C81			CQ92FM1H223J	MYLAR 0.022UF J		
C82			CQ92FM1H473J	MYLAR 0.047UF J		
C83			CE04LW1A221M	ELECTRO 220UF 10WV		
C84 -87			CE04LW1C100M	ELECTRO 10UF 16WV		
C88			CE04LW1A221M	ELECTRO 220UF 10WV		
C89 ,90			CF92FV1H104J	MF-C 0.10UF J		
C91			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C92			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C93			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C94			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C95			CF92FV1H154J	MF-C 0.15UF J		
C96			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C97 ,98			CF92FV1H154J	MF-C 0.15UF J		
C99			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C100			CF92FV1H154J	MF-C 0.15UF J		
C101			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C102			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C103			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C104			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C105,106			CF92FV1H104J	MF-C 0.10UF J		
C107			CE04LW1C470M	ELECTRO 47UF 16WV		
C108			CF92FV1H474J	MF-C 0.47UF J		
C109			CK45FF1H103Z	CERAMIC 0.010UF Z		
C110			CQ92FM1H681J	MYLAR 680PF J		
C111			CK45FB1H102K	CERAMIC 1000PF K		
C115,116			CE04LW1C100M	ELECTRO 10UF 16WV		
C117			CE04LW1C101M	ELECTRO 100UF 16WV		
C118			CF92FV1H474J	MF-C 0.47UF J		
C119			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C120			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C121			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
C122-124			CE04LW1C100M	ELECTRO 10UF 16WV		
C127			CK45FF1H103Z	CERAMIC 0.010UF Z		
C128			CK45FB1H222K	CERAMIC 2200PF K		
C129			CK45FB1H102K	CERAMIC 1000PF K		

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⑬

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C130			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C131			CE04LW1HR33M	ELECTRO 0.33UF 50WV		
C132			CK45FF1H103Z	CERAMIC 0.010UF Z	56	
C133			CE04LW1A221M	ELECTRO 220UF 10WV		
C134			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C135			CQ92FM1H823J	MYLAR 0.082UF J		
C136			CQ92FM1H332J	MYLAR 3300PF J		
C137			CQ92FM1H823J	MYLAR 0.082UF J		
C138			CE04LW1A221M	ELECTRO 220UF 10WV		
C140-142			CE04LW1C100M	ELECTRO 10UF 16WV		
C144-146			CE04LW1C100M	ELECTRO 10UF 16WV		
C147,148			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C152,153			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C161,162			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C163-166			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C167,168			CQ92FM1H683J	MYLAR 0.068UF J		
C169,170			CE04LW1HR22M	ELECTRO 0.22UF 50WV		
C171,172			CQ92FM1H153J	MYLAR 0.015UF J		
C173,174			C91-1561-05	METALIZED POLYESTER FILM C.		
C175,176			CK45FB1H222K	CERAMIC 2200PF K		
C177,178			CE04LW1H0R1M	ELECTRO 0.1UF 50WV		
C179,180			CK45FF1H472Z	CERAMIC 4700PF Z		
C181,182			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C183			CE04LW1C100M	ELECTRO 10UF 16WV		
C184			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C185			CK45FF1H472Z	CERAMIC 4700PF Z		
C186			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C189,190			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C191-194			CE04LW1C100M	ELECTRO 10UF 16WV		
C195			CK45FB1H102K	CERAMIC 1000PF K		
C196,197			CE04LW1C100M	ELECTRO 10UF 16WV		
C199			CE04LW1C100M	ELECTRO 10UF 16WV		
C200			CE04LW1C220M	ELECTRO 22UF 16WV	56	
C201,202			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	23456	
C203,204			CK45FB1H561K	CERAMIC 560PF K		
C205,206			CE04LW1C220M	ELECTRO 22UF 16WV		
C207,208		∗	C91-1562-05	MF-C 1.0UF J		
C209,210		∗	C90-3734-05	ALMINIUM ELECTROLYTIC C.		
C211,212			CE04LW2A010M	ELECTRO 1.0UF 100WV		
C213,214			CE04LW2A470M	ELECTRO 47UF 100WV		
C215,216			CK45FF1H103Z	CERAMIC 0.010UF Z		
C217,218			CF92FV1H104J	MF-C 0.10UF J		
C221-224			CK45FE2H103P	CERAMIC 0.010UF P		
C251,252			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C253,254			CK45FB1H561K	CERAMIC 560PF K		
C255,256			CE04LW1A101M	ELECTRO 100UF 10WV	13456	
C257,258		∗	C91-1562-05	MF-C 1.0UF J	13456	
C259,260		∗	C90-3734-05	ALMINIUM ELECTROLYTIC C.	13456	
C261,262			CE04LW2A010M	ELECTRO 1.0UF 100WV	13456	
C263,264			CE04LW2A470M	ELECTRO 47UF 100WV	13456	
C265,266			CK45FF1H103Z	CERAMIC 0.010UF Z	13456	
C267,268			CF92FV1H104J	MF-C 0.10UF J	13456	
C451,452			C91-0745-05	CERAMIC 100PF K	TEQ	
C453,454			C91-0745-05	CERAMIC 100PF K		
C455,456			C91-0745-05	CERAMIC 100PF K	TEQ	

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C457,458			C91-0745-05	CERAMIC 100PF K		
C459-462			C91-0745-05	CERAMIC 100PF K	TEQ	
C463,464			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C465,466			C91-0753-05	CHIP C 470PF K		
C467,468			CE04LW1C220M	ELECTRO 22UF 16WV		
C469,470			CK45FF1H103Z	CERAMIC 0.010UF Z		
C471			C91-0757-05	CERAMIC 1000PF K		
C501			C91-0769-05	CERAMIC 0.010UF K		
C502,503			C90-3253-05	ELECTRO 1.0UF 50WV		
C504,505			C91-0769-05	CERAMIC 0.010UF K		
C506			C90-1827-05	ELECTRO 0.047F 5.5WV	V	
C506			C90-1827-05	ELECTRO 0.047F 5.5WV	YMXTEQ	
C506			C90-3216-05	ELECTRO 330UF 6.3WV	KP	
C507			C90-3214-05	ELECTRO 100UF 6.3WV		
C508			C91-0769-05	CERAMIC 0.010UF K		
C509,510			C91-0745-05	CERAMIC 100PF K		
C511,512			C90-3214-05	ELECTRO 100UF 6.3WV		
C513-516			C91-0745-05	CERAMIC 100PF K		
C520			C91-0745-05	CERAMIC 100PF K		
C521-525			C91-0769-05	CERAMIC 0.010UF K		
CN11			E40-4245-05	PIN ASSY	KP	
CN16			E40-4918-05	FLAT CABLE CONNECTOR	5	
CN17			E40-9848-05	PIN ASSY		
CN18			E40-9888-05	PIN ASSY	1234	
CN18			E40-9890-05	PIN ASSY	KP	
CN19			E40-4807-05	PIN ASSY	KP56	
CN20			E40-4254-05	FLAT CABLE CONNECTOR	1256	
CN21			E40-4956-05	FLAT CABLE CONNECTOR		
CN22			E40-9906-05	SOCKET FOR PIN ASSY		
⚠ J1			E03-0316-05	AC OUTLET	KP	
J2			E63-0195-05	PHONO JACK		
J3			E63-0196-05	PHONO JACK	3456	
J4			E11-0347-05	MINIATURE PHONE JACK		
J5		∗	E63-0198-05	PHONO JACK	1234	
J6			E70-0081-05	LOCK TERMINAL BOARD		
J7			E70-0082-05	LOCK TERMINAL BOARD		
J8			E11-0295-05	PHONE JACK (3P)		
J10 ,11			E63-0194-05	PHONO JACK		
WH1		∗	E35-1721-05	WIRING HARNESS	KP	
WH2		∗	E35-1722-05	WIRING HARNESS	KP	
WH11		∗	E82-5518-04	FINISHED WIRE		
WH12		∗	E82-4533-04	FINISHED WIRE		
WH13		∗	E82-3512-04	FINISHED WIRE		
WH14		∗	E82-3539-04	FINISHED WIRE		
WH15		∗	E82-6518-04	FINISHED WIRE		
WH16		∗	E82-5527-04	FINISHED WIRE	TEQ	
WH17		∗	E84-7522-04	FINISHED WIRE		
WH22		∗	E89-0001-05	FINISHED WIRE	Q	
WH25		∗	E82-4568-04	FINISHED WIRE		
WH26		∗	E82-3568-04	FINISHED WIRE		
WH27		∗	E89-0002-05	FINISHED WIRE		
WH31		∗	E35-1763-05	WIRING HARNESS		
WH32		∗	E35-1764-05	WIRING HARNESS		
WH33		∗	E35-1765-05	WIRING HARNESS		
WH34		∗	E35-1766-05	WIRING HARNESS		

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WH35		*	E35-1767-05	WIRING HARNESS		
		*	F01-2070-15	HEAT SINK		
⚠ F1			F50-0078-05	FUSE(5X20)	KP	
⚠ F5 ,6			F50-0066-05	FUSE(5X20)	KP	
⚠ F5 ,6			F50-0096-05	FUSE(5X20)	YMXTEQ	
⚠ F7 ,8			F50-0076-05	FUSE(5X20)	KP	
⚠ F7 ,8		*	F50-0103-05	FUSE(5X20)	YMXTEQ	
			J19-5644-03	HOLDER		
CN1 ,2			J13-0075-05	FUSE CLIP	KP	
CN3 -6			J13-0075-05	FUSE CLIP		
CN31-34			J13-0075-05	FUSE CLIP		
J9			J11-0809-05	WIRE CLAMPER		
J12 -15			J11-0809-05	WIRE CLAMPER		
L3 ,4		*	L33-0541-05	CHOKE COIL		
L5 ,6			L92-0054-05	FERRITE CORE		
L11 ,12		*	L33-0541-05	CHOKE COIL	EQ	
L13 ,14			L92-0054-05	FERRITE CORE	EQ	
⚠ T1			L07-2127-05	POWER TRANSFORMER	KP	
X1			L78-0290-05	RESONATOR (8MHZ)	EQ	
X10			L78-0290-05	RESONATOR (8MHZ)	TEQV	
X10			L78-0605-05	RESONATOR (8.38MHZ)	KPYMX	
CP1			R90-0488-05	MULTI-COMP 4.7KX8 J 1/6W		
⚠ R1			R92-1844-05	CARBON COMPOSITION RESISTOR	KP	
R2			RD14NB2E332J	RD 3.3K J 1/4W	KP	
⚠ R6			RS14KB3A150J	FL-PROOF RS 15 J 1W		
R12			RD14NB2E330J	RD 33 J 1/4W		
R19			RD14NB2E101J	RD 100 J 1/4W		
⚠ R22			RS14KB3D271J	FL-PROOF RS 270 J 2W	3456	
⚠ R23			RS14KB3D271J	FL-PROOF RS 270 J 2W		
⚠ R28 -30			RS14KB3D331J	FL-PROOF RS 330 J 2W		
R37			RD14NB2E100J	RD 10 J 1/4W		
⚠ R39 ,40			RD14NB2E101J	RD 100 J 1/4W		
R140,141		*	RS14KB3D682J	FL-PROOF RS 6.8K J 2W	TEQ	
R140,141		*	RS14KB3D822J	FL-PROOF RS 8.2K J 2W	KPYMXV	
R147,148			RS14KB3D471J	FL-PROOF RS 470 J 2W		
R211-214			RS14KB3D682J	FL-PROOF RS 6.8K J 2W	TEQ	
R211-214			RS14KB3D822J	FL-PROOF RS 8.2K J 2W	KPYMXV	
R215			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
R216			RS14KB3A102J	FL-PROOF RS 1.0K J 1W		
⚠ R217,218			RD14NB2E681J	RD 680 J 1/4W		
R219,220		*	R92-1843-05	FL-PROOF RS 0.22 J 5W		
R229,230			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R235-238		*	R92-1852-05	FL-PROOF RS 0.33 J 5W		
R239			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
R241			RS14KB3A102J	FL-PROOF RS 1.0K J 1W		
R261-264			RS14KB3D682J	FL-PROOF RS 6.8K J 2W	TEQ	
R261-264			RS14KB3D822J	FL-PROOF RS 8.2K J 2W	23456	
R265,266			RS14KB3D272J	FL-PROOF RS 2.7K J 2W		
⚠ R267,268			RD14NB2E681J	RD 680 J 1/4W		
R269,270		*	R92-1843-05	FL-PROOF RS 0.22 J 5W		
R279,280			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R285-288		*	R92-1852-05	FL-PROOF RS 0.33 J 5W	13456	

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R519,520			RD14NB2E221J	RD 220 J 1/4W		
R522			RD14NB2E100J	RD 10 J 1/4W		
K1			S76-0057-05	MAGNETIC RELAY	KP	
K2 ,3			S76-0056-05	MAGNETIC RELAY		
⚠ K4		*	S76-0063-05	MAGNETIC RELAY		
S1			S62-0034-05	SLIDE SWITCH		
S101-128			S70-0031-05	TACT SWITCH		
S129			S70-0031-05	TACT SWITCH	56	
S130-131			S70-0031-05	TACT SWITCH		
S132			S70-0031-05	TACT SWITCH	TEQ	
S133			T99-0559-05	ROTARY ENCODER		
S134			T99-0571-05	ROTARY ENCODER		
D1			1SS131	DIODE	KP	
D2 -5			S5688B	DIODE	KP	
D2 -5			1SR139-400	DIODE	KP	
D6			MTZJ6.2(B)	ZENER DIODE	KP	
D7 ,8			1SS131	DIODE	KP	
D9			MTZJ2.7(B)	ZENER DIODE	KP	
⚠ D10			S5688B	DIODE		
⚠ D10			1SR139-400	DIODE		
⚠ D11			D5SBA20F03	DIODE		
⚠ D12			S5688B	DIODE		
⚠ D12			1SR139-400	DIODE		
D13			MTZJ5.1(B)	ZENER DIODE		
⚠ D14			S5688B	DIODE		
⚠ D14			1SR139-400	DIODE		
D15			1SS131	DIODE		
D16			MTZJ15(B)	ZENER DIODE		
D17			MTZJ3.9(B)	ZENER DIODE		
D18			MTZJ15(B)	ZENER DIODE		
⚠ D19 -22			S5688B	DIODE		
⚠ D19 -22			1SR139-400	DIODE		
D23			MTZJ11(B)	ZENER DIODE		
⚠ D24			S5688B	DIODE		
⚠ D24			1SR139-400	DIODE		
D25			1SS131	DIODE		
D26			MTZJ5.1(B)	ZENER DIODE	12	
D27			MTZJ5.1(B)	ZENER DIODE		
⚠ D28			D5SBA20F03	DIODE		
D29			MTZJ10(B)	ZENER DIODE		
D30			1SS131	DIODE		
⚠ D31			D5SBA20F03	DIODE		
D32			1SS131	DIODE		
D33 ,34			MTZJ11(B)	ZENER DIODE		
D35 -42			1SS131	DIODE		
D101-110			1SS133	DIODE		
D111			1SS131	DIODE	YM	
D112			1SS131	DIODE	YMXTEQ	
D113			1SS131	DIODE	XQ	
D114			1SS131	DIODE	TEQ	
D115-121			1SS131	DIODE	KPYMXV	
D122			1SS131	DIODE	1234	
D123			1SS131	DIODE	1256	

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D124			MTZJ5.6(B)	ZENER DIODE		
D127			1SS133	DIODE		
D201-203			1SS131	DIODE		
D251-253			1SS131	DIODE		
ED1			FIP10DM6R	INDICATOR TUBE		
IC1			NJM2279D	IC(VIDEO IC)	3456	
IC2			LA2786	ANALOGUE IC		
IC3			LV1016	DI BI-POLAR IC		
IC4			TC9215AP	ANALOGUE IC		
⚠ IC6			STK426-530K	HYBRID IC		
⚠ IC7		*	STK426-530K	HYBRID IC	13456	
IC8			NJM4580D-D	IC(OP AMP X2)		
IC9			M62430FP	ANALOGUE IC		
IC18			NJU7313AL	ANALOGUE IC		
IC19			NJM4565D-D	IC(OP AMP X2)		
IC21			CXP82532-151Q	MI-COM IC	KPYMX	
IC21			CXP82540-152Q	MI-COM IC	TEQ	
IC22			S-806D-Z	ANALOGUE IC		
IC23			X24C04P	MEMORY IC	TEQ	
Q1			2SC3940A(R,S)	TRANSISTOR	KP	
Q2			2SC2003(L,K)	TRANSISTOR	KP	
Q5 ,6			2SA933AS(Q,R)	TRANSISTOR		
Q11			DTC113ZSA	DIGITAL TRANSISTOR		
⚠ Q12			2SA1534A(R,S)	TRANSISTOR		
⚠ Q13			2SD2525	TRANSISTOR		
⚠ Q14			2SB1640	TRANSISTOR		
⚠ Q15			2SC1740S(Q,R)	TRANSISTOR		
Q16			2SA992(F,E)	TRANSISTOR		
Q17			2SC1740S(Q,R)	TRANSISTOR		
Q18			2SC2878(B)	TRANSISTOR	56	
⚠ Q19			2SC2590(Q,R)	TRANSISTOR		
Q20			DTC113ZSA	DIGITAL TRANSISTOR		
Q21 -22			2SC2878(B)	TRANSISTOR		
Q23 ,24			2SC2878(B)	TRANSISTOR	23456	
Q25			2SA992(F,E)	TRANSISTOR		
Q26 ,27			2SC1845(F,E)	TRANSISTOR		
Q28			DTC113ZSA	DIGITAL TRANSISTOR		
Q29			2SC2878(B)	TRANSISTOR		
Q30			2SC1740S(Q,R)	TRANSISTOR		
Q31 ,32			2SC2878(B)	TRANSISTOR		
Q101,102			2SC1740S(Q,R)	TRANSISTOR		
Q103-105			DTC143TSA	DIGITAL TRANSISTOR		
Q106			DTC143TSA	TRANSISTOR	1234	
Q107			2SA933AS(Q,R)	TRANSISTOR	YMV	
Q201,202			2SC2878(B)	TRANSISTOR	23456	
Q203,204			2SC2631(R,S)	TRANSISTOR	23456	
Q251,252			2SC2878(B)	TRANSISTOR		
A1			W02-2583-05	OPTIC RECEIVING MODULE		

CONTROL UNIT (X11-3710-10 : KR-797/897 ONLY)

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C4			CE04HW1E4R7M	CERAMIC 220PF K	2	
C5 ,6			C91-0749-05	CERAMIC 220PF K		
C7 -10			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	1	
C9 ,10			CE04LW1V470M	ELECTRO 47UF 35WV	2	
C13 ,14			C91-0749-05	CERAMIC 220PF K		

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4 : 106VR
6 : 107VR
⚠ indicates safety critical components.

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⑱

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C15 ,16			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	1	
C17 ,18			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	2	
C19 ,20			CE04LW1H100M	ELECTRO 10UF 50WV	2	
C23 ,24			CQ92FM1H472J	MYLAR 4700PF J	1	
C25 ,26			CQ92FM1H223J	MYLAR 0.022UF J		
CN1			E40-4293-05	FLAT CABLE CONNECTOR		
CN2			E40-4293-05	FLAT CABLE CONNECTOR	2	
J1			E63-0195-05	PHONO JACK		
J2			E63-0195-05	PHONO JACK	1	
J2			E63-1004-05	PHONO JACK	2	
WH1		*	E83-2515-04	FINISHED WIRE		
D1 ,2			1SS133	DIODE	2	
IC1			NJM4565L	ANALOGUE IC	1	
IC2			NJM4565L	ANALOGUE IC	2	
Q1 -4			2SC2878(B)	TRANSISTOR	1	
Q5 ,6			2SC2878(B)	TRANSISTOR	2	
Q8			2SA933AS(Q,R)	TRANSISTOR	2	

SUB UNIT (X13-7430-10)

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C1			CK45FF1H103Z	CERAMIC 0.010UF Z	Q	
C1			CK45FF1H103Z	CERAMIC 0.010UF Z	YMVXTE	
⚠ C2			C91-1488-05	MF 6800PF 250VAC	YXTEQ	
⚠ C2			C91-1563-05	METALIZED FILM CAPACITOR	MV	
C3			CE04EW1E331M	ELECTRO 330UF 25WV	Q	
C3			CE04EW1E331M	ELECTRO 330UF 25WV	YMVXTE	
C4			CE04LW1A470M	ELECTRO 47UF 10WV	Q	
C4			CE04LW1A470M	ELECTRO 47UF 10WV	YMVXTE	
C5			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	Q	
C5			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	YMVXTE	
⚠ C6			C91-1488-05	MF 6800PF 250VAC	YXTEQ	
⚠ C6 ,7			C91-1563-05	METALIZED FILM CAPACITOR	MV	
⚠ C7			C91-1488-05	MF 6800PF 250VAC	XTEQ	
C8 ,9			CK45FF1H103Z	CERAMIC 0.010UF Z	Q	
C8 ,9			CK45FF1H103Z	CERAMIC 0.010UF Z	YMVXTE	
C10			CK45FB1H102K	CERAMIC 1000PF K	Q	
C10			CK45FB1H102K	CERAMIC 1000PF K	YMVXTE	
C11 ,12			CE04LW1V4R7M	ELECTRO 4.7UF 35WV	56	
C13			CE04LW1C220M	ELECTRO 22UF 16WV	56	
C14			CK45FF1H103Z	CERAMIC 0.010UF Z	56	
C15			CK45FF1H103Z	CERAMIC 0.010UF Z	Q	
C15			CK45FF1H103Z	CERAMIC 0.010UF Z	YMVXTE	
C16 ,17			CC45FSL1H101J	CERAMIC 100PF J	56	
C18			CE04LW1H010M	ELECTRO 1.0UF 50WV	56	
C19			CE04LW1C100M	ELECTRO 10UF 16WV	56	
C20 ,21			CK45FF1H103Z	CERAMIC 0.010UF Z	56	
C22 ,23			CE04LW1C220M	ELECTRO 22UF 16WV	56	
C24			CC45FSL1H101J	CERAMIC 100PF J	56	
C25 ,26			CE04LW1C100M	ELECTRO 10UF 16WV	56	
C29			CE04LW1E100M	ELECTRO 10UF 25WV	56	
C50 ,51			CK45FB1H471K	CERAMIC 470PF K	TEQ	
C61 ,62			CC45FSL1H101J	CERAMIC 100PF J	56	
C63 ,64			C90-3242-05	ELECTRO 4.7UF 35WV	56	
C65 ,66			CC45FCH1H220J	CERAMIC 22PF J	56	
C67 ,68			CK45FF1H103Z	CERAMIC 0.010UF Z	56	

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6 : 107VR
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⑲

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C69			CC45FSL1H101J	CERAMIC 100PF J	56	
C70 ,71			CK45FF1H103Z	CERAMIC 0.010UF Z	56	
C101			CK45FF1H103Z	CERAMIC 0.010UF Z	TEQ	
C102			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	TEQ	
C103			CC45FSL1H331J	CERAMIC 330PF J	TEQ	
C104			CK45FB1H561K	CERAMIC 560PF K	TEQ	
C105			CC45FCH1H470J	CERAMIC 47PF J	TEQ	
C106			CC45FCH1H220J	CERAMIC 22PF J	TEQ	
C107,108			CK45FF1H103Z	CERAMIC 0.010UF Z	TEQ	
C109			CE04LW1V470M	ELECTRO 47UF 35WV	TEQ	
C110			CK45FF1H103Z	CERAMIC 0.010UF Z	TEQ	
CN1			E40-4245-05	PIN ASSY	Q	
CN1			E40-4245-05	PIN ASSY	YMVXTE	
CN4			E40-4294-05	FLAT CABLE CONNECTOR	Q	
CN4			E40-4294-05	FLAT CABLE CONNECTOR	YMVXTE	
CN5			E40-4296-05	FLAT CABLE CONNECTOR	56	
CN10			E40-4295-05	FLAT CABLE CONNECTOR	TEQ	
CN11			E40-4284-05	FLAT CABLE CONNECTOR	56	
⚠ J1			E03-0109-05	AC OUTLET	T	
⚠ J1			E03-0305-05	AC OUTLET	MEQ	
⚠ J1			E03-0316-05	AC OUTLET	Y	
⚠ J1			E03-0325-05	AC OUTLET	X	
⚠ J1		*	E03-0337-05	AC OUTLET	V	
J2			E63-0198-05	PHONO JACK	56	
J3			E70-0083-05	PHONO JACK	56	
J4			E63-0197-05	PHONE JACK	56	
WH1		*	E35-1700-05	WIRING HARNESS	Q	
WH1		*	E35-1700-05	WIRING HARNESS	YMVXTE	
WH2		*	E35-1701-05	WIRING HARNESS	Q	
WH2		*	E35-1701-05	WIRING HARNESS	YMVXTE	
WH3		*	E35-1702-05	WIRING HARNESS	YM	
WH4		*	E35-1703-05	WIRING HARNESS	YM	
WH5		*	E35-1704-05	WIRING HARNESS	YM	
WH6		*	E35-1705-05	WIRING HARNESS	YM	
WH7		*	E35-1706-05	WIRING HARNESS	YM	
WH8		*	E35-1707-05	WIRING HARNESS	YM	
WH9		*	E35-1708-05	WIRING HARNESS	YM	
⚠ F1		*	F50-0101-05	FUSE(5X20)	TEQ	
⚠ F1		*	F50-0102-05	FUSE(5X20)	YMX	
⚠ F1		*	F50-0112-05	FUSE(5X20)	V	
⚠ F2		*	F50-0102-05	FUSE(5X20)	YM	
⚠ F3			F50-0100-05	FUSE(5X20)	EQ	
CN2 ,3			J13-0075-05	FUSE CLIP	Q	
CN2 ,3			J13-0075-05	FUSE CLIP	YMVXTE	
CN6 ,7			J13-0075-05	FUSE CLIP	YM	
CN8 ,9			J13-0075-05	FUSE CLIP	EQ	
L11 -13			L92-0044-05	FERRITE CORE	56	
L101			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TEQ	
L102			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	TEQ	
⚠ T1			L07-2128-05	POWER TRANSFORMER	YM	
⚠ T1			L07-2129-05	POWER TRANSFORMER	VXTEQ	
X1			L77-2206-05	CRYSTAL RESONATOR(4.332MHZ)	TEQ	

L : Scandinavia **K** : USA **P** : Canada **R** : Mexico **1** : KR-797 **2** : KR-897
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **G** : Germany **3** : KR-V6090 **4** : 106VR
Y : AAFES(Europe) **X** : Australia **M** : Other Areas **5** : KR-V7090 **6** : 107VR
⚠ indicates safety critical components.

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⑳

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
⚠ K1			S76-0044-05	MAGNETIC RELAY	Q	
⚠ K1			S76-0044-05	MAGNETIC RELAY	YMVXTE	
⚠ K2			S76-0056-05	MAGNETIC RELAY	56	
⚠ S1			S68-0056-05	PUSH SWITCH	MVXTEQ	
⚠ S2			S31-3010-05	SLIDE SWITCH	YM	
D1 -4			S5688B	DIODE	Q	
D1 -4			S5688B	DIODE	YMVXTE	
D1 -4			1SR139-400	DIODE	Q	
D1 -4			1SR139-400	DIODE	YMVXTE	
D5			MTZJ6.2(B)	ZENER DIODE	Q	
D5			MTZJ6.2(B)	ZENER DIODE	YMVXTE	
D6 ,7			1SS131	DIODE	Q	
D6 ,7			1SS131	DIODE	YMVXTE	
⚠ D8			MTZJ2.7(B)	ZENER DIODE	Q	
⚠ D8			MTZJ2.7(B)	ZENER DIODE	YMVXTE	
D10			1SS133	DIODE	Q	
D10			1SS133	DIODE	YMVXTE	
D13			MTZJ4.7(B)	ZENER DIODE	56	
D14			1SS133	DIODE	56	
D21			1SS133	DIODE	56	
D31 -34			1SS133	DIODE	56	
IC1			TC9215AP	ANALOGUE IC	56	
IC2			M62429P	ANALOGUE IC	56	
IC3 ,4			NJM4565L-D	ANALOGUE IC	56	
IC5			SAA6579	ANALOGUE IC	TEQ	
⚠ Q1			2SC3940A(R,S)	TRANSISTOR	Q	
⚠ Q1			2SC3940A(R,S)	TRANSISTOR	YMVXTE	
Q2			2SC2003(L,K)	TRANSISTOR	Q	
Q2			2SC2003(L,K)	TRANSISTOR	YMVXTE	
Q3			2SC2878(B)	TRANSISTOR	56	
Q4			DTC124ESA	DIGITAL TRANSISTOR	56	
Q5			2SA933AS(Q,R)	TRANSISTOR	56	

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Y : AAFES(Europe) **X** : Australia **M** : Other Areas **5** : KR-V7090 **6** : 107VR
⚠ indicates safety critical components.

SPECIFICATIONS

KR-797 (for U.S.A. and Canada)

⚠ ***Caution : Read this page carefully to ensure safe operation.***

Audio section

Rated power output at the STEREO operation

110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

110 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Center

110 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

110 watts per channel minimum RMS, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion .... 0.3 % (1 kHz, 55 W, 8 Ω)
Signal to noise ratio (IHF'66)
PHONO (MM) .... 75 dB
LINE (CD) .... 93 dB
Input sensitivity / impedance
PHONO (MM) .... 3.0 mV / 47 kΩ
CD .... 220 mV / 47 kΩ
Tone controls
BASS .... ± 8 dB (at 100 Hz)
MIDDLE .... ± 8 dB (at 900 Hz)
TREBLE .... ± 8 dB (at 10 kHz)
N.B. circuit .... + 5 dB (80 Hz)
Output level / impedance
Sub woofer preout .... 2.0 V / 600 Ω

FM Tuner section

Tuning frequency range .... 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO .... 1.3 μV (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)
50 dB quieting sensitivity
STEREO .... 31.6 μV (at 75 Ω) / 41.2dBf
Total harmonic distortion (1 kHz)
MONO .... 0.5 % (65 dBf input)
STEREO .... 0.6 % (65 dBf input)
Signal to noise ratio (1 kHz 75 kHz dev.)
MONO .... 75 dB (65 dBf input)
STEREO .... 68 dB (65 dBf input)
Stereo separation (1 kHz) .... 40 dB
Selectivity (IHF ±400 kHz) .... 66 dB
Frequency response .... 30 Hz ~15 kHz, + 0.5 dB, – 3.0 dB

AM Tuner section

Tuning frequency range .... 530 kHz ~ 1,700 kHz
Usable sensitivity (30 % mod., S/N 20 dB)
.... 15 μV / (500 μV / m)
Signal to noise ratio (30 % mod., 1 mV input) .... 48 dB

General

Power consumption .... 2.8 A
⚠ AC outlet
SWITCHED .... 1: (300 W, 2.5 A max.)
Dimensions .... W:440 mm (17-5/16")
H:127 mm (5")
D:389 mm (15-5/16")
Weight (net) .... 9.0 kg (19.9 lb)

SPECIFICATIONS

KR-897 (for U.S.A. and Canada)

⚠ *Caution : Read this page carefully to ensure safe operation.*

Audio section

Rated power output at the STEREO operation

120 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation
Front

120 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion
.... 0.3 % (1 kHz, 55 W, 8 Ω)
Signal to noise ratio (IHF'66)
PHONO (MM) .... 75 dB
LINE (CD) .... 93 dB
Input sensitivity / impedance
PHONO (MM) .... 3.0 mV / 47 kΩ
CD .... 220 mV / 47 kΩ
Tone controls
BASS .... ± 8 dB (at 100 Hz)
MIDDLE .... ± 8 dB (at 900 Hz)
TREBLE .... ± 8 dB (at 10 kHz)
N.B. circuit .... + 5 dB (80 Hz)
Output level / impedance
Sub woofer preout .... 2.0 V / 600 Ω

FM Tuner section

Tuning frequency range .... 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO .... 1.3 μV (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)
50 dB quieting sensitivity
STEREO .... 31.6 μV (at 75 Ω) / 41.2dBf
Total harmonic distortion (1 kHz)
MONO .... 0.5 % (65 dBf input)
STEREO .... 0.6 % (65 dBf input)
Signal to noise ratio (1 kHz 75 kHz dev.)
MONO .... 75 dB (65 dBf input)
STEREO .... 68 dB (65 dBf input)
Stereo separation (1 kHz) .... 40 dB
Selectivity (IHF ±400 kHz) .... 66 dB
Frequency response .... 30 Hz ~15 kHz, + 0.5 dB, − 3.0 dB

AM Tuner section

Tuning frequency range .... 530 kHz ~ 1,700 kHz
Usable sensitivity (30 % mod., S/N 20 dB)
.... 15 μV / (500 μV / m)
Signal to noise ratio (30 % mod., 1 mV input) .... 48 dB

General

Power consumption .... 160 W
⚠ AC outlet
SWITCHED .... 1: (300 W, 2.5 A max.)
Dimensions .... W:440 mm (17-5/16")
H:127 mm (5")
D:389 mm (15-5/16")
Weight (net) .... 9.0 kg (19.9 lb)

106VR/107VR/KR-797/897/V6090/V7090

SPECIFICATIONS

KR-V6090

⚠ *Caution : Read this page carefully to ensure safe operation.*

Audio section

Rated power output at the STEREO operation

100 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

1 kHz, 10 % THD at 8 Ω .... 120 W + 120 W
(DIN/IEC) from 63 Hz to 12,500 Hz,
0.7 % T.H.D., at 8 Ω .... 100 W + 100 W
Power output at the Surround operation
Front (1 kHz, 0.7 % T.H.D. at 8 Ω) .... 100 W + 100 W
Center (1 kHz, 0.7 % T.H.D. at 8 Ω) .... 100 W
Surround (1 kHz, 0.7 % T.H.D. at 8 Ω) .... 100 W

Front (1 kHz, 10 % T.H.D. at 8 Ω) .... 120 W + 120 W
Center (1 kHz, 10 % T.H.D. at 8 Ω) .... 120 W
Surround (1 kHz, 10 % T.H.D. at 8 Ω) .... 120 W

Total harmonic distortion (1 kHz, 8 Ω) .... 0.3 % (at 50 W)
Signal to noise ratio (IHF'66)
PHONO (MM) .... 75 dB
LINE (CD) .... 93 dB
Input sensitivity / impedance
PHONO (MM) .... 3.0 mV / 47 kΩ
CD .... 220 mV / 47 kΩ
Tone controls
BASS .... ± 8 dB (at 100 Hz)
MIDDLE .... ± 8 dB (at 900 Hz)
TREBLE .... ± 8 dB (at 10 kHz)
N.B. circuit .... + 5 dB (80 Hz)
Output level / impedance
Sub woofer preout .... 2.0 V / 600 Ω

Video section

VIDEO inputs / outputs (Composite) .... 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range .... 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO .... 2.0 μV (at 75 Ω) / 17.2 dBf
(75 kHz dev., SINAD 30 dB)
50 dB quieting sensitivity
STEREO .... 35 μV (at 75 Ω) / 42.2dBf
Total harmonic distortion (1 kHz)
MONO .... 0.7 % (65 dBf input)
STEREO .... 0.8 % (65 dBf input)
Signal to noise ratio (1 kHz 75 kHz dev.)
MONO .... 73 dB (65 dBf input)
STEREO .... 66 dB (65 dBf input)
Selectivity (IHF ±400 kHz) .... 50 dB
Stereo separation (1 kHz) .... 40 dB
Frequency response .... 30 Hz ~15 kHz, + 0.5 dB, − 3.0 dB

AM Tuner section

Tuning frequency range
9 kHz .... 531 kHz ~ 1,602 kHz
10 kHz .... 530 kHz ~ 1,610 kHz
Usable sensitivity (30 % mod., S/N 20 dB)
.... 13 μV / (500 μV / m)
Signal to noise ratio (30 % mod., 1 mV input) .... 50 dB

General

Power consumption .... 250 W
⚠ AC outlet
SWITCHED .... 1: (50 W max.)
Dimensions .... W:440 mm
H:127 mm
D:389 mm
Weight (net) .... 9.0 kg

SPECIFICATIONS

KR-V7090

⚠ ***Caution : Read this page carefully to ensure safe operation.***

Audio section

Rated power output at the STEREO operation

> 110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

1 kHz, 10 % THD at 8 Ω .... 130 W + 130 W
(DIN/IEC) from 63 Hz to 12,500 Hz,
0.7 % T.H.D., at 8 Ω .... 110 W + 110 W
Power output at the Surround operation
Front (1 kHz, 0.7 % T.H.D. at 8 Ω) .... 110 W + 110 W
Center (1 kHz, 0.7 % T.H.D. at 8 Ω) .... 110 W
Surround (1 kHz, 0.7 % T.H.D. at 8 Ω) .... 110 W

Front (1 kHz, 10 % T.H.D. at 8 Ω) .... 130 W + 130 W
Center (1 kHz, 10 % T.H.D. at 8 Ω) .... 130 W
Surround (1 kHz, 10 % T.H.D. at 8 Ω) .... 130 W
Total harmonic distortion (1 kHz, 8 Ω) .... 0.3 % at 55 W
Signal to noise ratio (IHF'66)
PHONO (MM) .... 75 dB
CD .... 93 dB
Input sensitivity / impedance
PHONO (MM) .... 3.0 mV / 47 kΩ
CD .... 220 mV / 47 kΩ
Output level / impedance
Sub woofer preout .... 1.0 V / 2.2 kΩ
Tone controls
BASS .... ± 8 dB (at 100 Hz)
MIDDLE .... ± 8 dB (at 900 Hz)
TREBLE .... ± 8 dB (at 10 kHz)
N.B. circuit .... + 5 dB (80 Hz)

Video section

VIDEO inputs / outputs (Composite) .... 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range .... 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO .... 2.0 μV (at 75 Ω) / 17.2 dBf
(75 kHz dev., SINAD 30 dB)
50 dB quieting sensitivity
STEREO .... 35 μV (at 75 Ω) / 42.2dBf
Total harmonic distortion (1 kHz)
MONO .... 0.7 % (65 dBf input)
STEREO .... 0.8 % (65 dBf input)
Signal to noise ratio (1 kHz 75 kHz dev.)
MONO .... 73 dB (65 dBf input)
STEREO .... 66 dB (65 dBf input)
Stereo separation (1 kHz) .... 40 dB
Selectivity (IHF ±400 kHz) .... 50 dB
Frequency response .... 30 Hz ~15 kHz, + 0.5 dB, – 3.0 dB

AM Tuner section

Tuning frequency range
9 kHz .... 531 kHz ~ 1,602 kHz
10 kHz .... 530 kHz ~ 1,610 kHz
Usable sensitivity (30 % mod., S/N 20 dB)
.... 13 μV / (500 μV / m)
Signal to noise ratio (30 % mod., 1 mV input) .... 50 dB

General

Power consumption .... 250 W
⚠ AC outlet
SWITCHED .... 1: (50 W max.)
Dimensions .... W: 440 mm
H: 127 mm
D: 389 mm
Weight (net) .... 9.0 kg

SPECIFICATIONS

106VR (for U.S.A.and Canada)

⚠ ***Caution : Read this page carefully to ensure safe operation.***

Audio section

Rated power output at the STEREO operation

> 110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation
Front

> 110 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Center

> 110 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

> 110 watts per channel minimum RMS, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion .... 0.3 % (1 kHz, 55 W, 8 Ω)
Signal to noise ratio (IHF'66)
PHONO (MM) .... 75 dB
LINE (CD) .... 93 dB
Input sensitivity / impedance
PHONO (MM) .... 3.0 mV / 47 kΩ
CD .... 220 mV / 47 kΩ
Tone controls
BASS .... ± 8 dB (at 100 Hz)
MIDDLE .... ± 8 dB (at 900 Hz)
TREBLE .... ± 8 dB (at 10 kHz)
N.B. circuit .... + 5 dB (80 Hz)
Output level / impedance
Sub woofer preout .... 2.0 V / 600 Ω

Video section

VIDEO inputs / outputs (Composite) .... 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range .... 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO .... 1.3 μV (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)
50 dB quieting sensitivity
STEREO .... 31.6 μV (at 75 Ω) / 41.2dBf
Total harmonic distortion (1 kHz)
MONO .... 0.5 % (65 dBf input)
STEREO .... 0.6 % (65 dBf input)
Signal to noise ratio (1 kHz 75 kHz dev.)
MONO .... 75 dB (65 dBf input)
STEREO .... 68 dB (65 dBf input)
Stereo separation (1 kHz) .... 40 dB
Selectivity (IHF ±400 kHz) .... 66 dB
Frequency response .... 30 Hz ~15 kHz, + 0.5 dB, – 3.0 dB

AM Tuner section

Tuning frequency range .... 530 kHz ~ 1,700 kHz
Usable sensitivity (30 % mod., S/N 20 dB)
.... 15 μV / (500 μV / m)
Signal to noise ratio (30 % mod., 1 mV input) .... 48 dB

General

Power consumption .... 2.8 A
⚠ AC outlet
SWITCHED .... 1: (50 W, 0.42 A max.)
Dimensions .... W:440 mm (17-5/16")
H:127 mm (5")
D:389 mm (15-5/16")
Weight (net) .... 9.0 kg (19.9 lb)

SPECIFICATIONS

107VR (for U.S.A.and Canada)

⚠ ***Caution : Read this page carefully to ensure safe operation.***

Audio section

Rated power output at the STEREO operation

120 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

120 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Center

120 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.8% total harmonic distortion.

Surround

120 watts per channel minimum RMS, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion .... 0.3 % (1 kHz, 60 W, 8 Ω)
Signal to noise ratio (IHF'66)
PHONO (MM) .... 75 dB
LINE (CD) .... 93 dB
Input sensitivity / impedance
PHONO (MM) .... 3.0 mV / 47 kΩ
CD .... 220 mV / 47 kΩ
Tone controls
BASS .... ± 8 dB (at 100 Hz)
MIDDLE .... ± 8 dB (at 900 Hz)
TREBLE .... ± 8 dB (at 10 kHz)
N.B. circuit .... + 5 dB (80 Hz)
Output level / impedance
Sub woofer preout .... 1.0 V / 2.2 kΩ

Video section

VIDEO inputs / outputs (Composite) .... 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range .... 87.5 MHz ~ 108 MHz
Usable sensitivity
MONO .... 1.3 μV (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)
50 dB quieting sensitivity
STEREO .... 31.6 μV (at 75 Ω) / 41.2dBf
Total harmonic distortion (1 kHz)
MONO .... 0.5 % (65 dBf input)
STEREO .... 0.6 % (65 dBf input)
Signal to noise ratio (1 kHz 75 kHz dev.)
MONO .... 75 dB (65 dBf input)
STEREO .... 68 dB (65 dBf input)
Stereo separation (1 kHz) .... 40 dB
Selectivity (IHF ±400 kHz) .... 66 dB
Frequency response .... 30 Hz ~15 kHz, + 0.5 dB, – 3.0 dB

AM Tuner section

Tuning frequency range .... 530 kHz ~ 1,700 kHz
Usable sensitivity (30 % mod., S/N 20 dB)
.... 15 μV / (500 μV / m)
Signal to noise ratio (30 % mod., 1 mV input) .... 48 dB

General

Power consumption .... 2.8 A
⚠ AC outlet
SWITCHED .... 1: (50 W, 0.42 A max.)
Dimensions .... W:440 mm (17-5/16")
H:127 mm (5")
D:389 mm (15-5/16")
Weight (net) .... 9.0 kg (19.9 lb)

Note :
We follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:
Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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